

JOHN F. KENNEDY SPACE CENTER

SUPPORT DIRECTIVE

40002

FACILITY FORM 502

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FLIGHT READINESS TEST

SEPTEMBER 22, 1967

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September 22, 1967

JOHN F. KENNEDY SPACE CENTER

SUPPORT DIRECTIVE

APOLLO/SATURN V

FLIGHT READINESS TEST

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010
SD 40002

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8. ITEM NO. 1	9. TEST CODE 501 & Up	This Document includes responses through Rev 3 RD 40002 and Rev. 14 PSRD 40002 with the exception of data disposition.		

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2		<u>LIST OF ABBREVIATIONS</u> R/T T R E NPURPT L WHAV WNBP Real-Time Test procedure "T-Zero" for the data processing Receipt of data request Event Not provided unless requested post test Launch When available Will not be provided																															
3		Support that has specific times stated for delivery of data or installation of equipment shall be stated using the following abbreviations: a. Calendar Days - CD b. Work Days - WD c. Clock Hours - CH d. Work Hours - WH																															

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4		CD and CH indicate that the support organization is to expend overtime as necessary to provide the requested support in sequential days or hours.		
5		WD and WH indicate that the support organization is to provide the support during normal established working days or hours.		
6		<p>The office symbols used in the "Item No." columns of this SD denote the following offices:</p> <p>PG - Technical Staff (Data) QJ - Operations Control Office (Communications, Timing) QC - Technical Services Division (Services) QK - Launch Facilities Division (Services) RE - Safety Office (Services) RL - Test Support Management Office (Services) RH - Documentation Division (Optics) NF - Staff Meteorologist</p>		

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Word or Abbreviation		Definition or Meaning		Word or Abbreviation	
Definition or Meaning		Word or Abbreviation		Definition or Meaning	
IP&C	Instrumentation Program and Components	MCC-H	Mission Control Center - Houston		
FR	Firing Room	SCF	Standard Cubic Feet		
TCE	Telemetry Checkout Equipment	CCS	Command and Communications System		
USB	Unified S-Band	EDS	Emergency Detection System		
RACS	Remote Automatic Calibration System	RSCR	Range Safety Command Receivers		
DRSCS	Digital Range Safety Command System	ALDS	Apollo Launch Data System		
LVDC	Launch Vehicle Digital Computer	CR	Change Request		
DEE	Digital Events Evaluator	MSFC	Marshall Space Flight Center		
PTCR	Pad Terminal Connection Room	MSC	Manned Spacecraft Center		
HOSC	Huntsville Operations Control Center	MSR	Mission Support Room (MSC)		
OSR	Operations Support Room (HOSC)	ECS	Environmental Control System		

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1	501	C. F. Henschel	LO-OPN	Test Supervisor	VAB	867-5750			
2	& Up	W. R. Quinn	TS-TSM-5	Test Support Manager, Saturn V	LCC 39	867-7155			
3		E. K. Blevins	TS-TSM-3	Scheduling Branch	Launch Complex 39	867-5176			
4		B. J. Smith	TS-TSM-2	Test Support Planning Branch	KSC Headquarters Building	867-2526			
5		R. T. Gwinn	TS-TSM-2	Test Support Planning Branch	KSC Headquarters Building	867-2526			
6		W. E. Dempsey	TS-TSM-6	Test Support Manager, Spacecraft	MSOB	867-3243			
7		D. T. Penland	AP-OPN-3	A/S V Requirements	KSC Headquarters Building	867-5489			
8		R. T. Creeden/J. N. Barfus	TS-TSM-5	Test Support Controller	LCC 39	867-5176			
9		J. M. Coonce	IN-TEC	Instrumentation Controller	CIF	867-4336			
10		W. G. Jelen	IN-DAT-1	NASA/KSC Data Office	CIF, Room 328	867-4155			
11		A. Parrish	SO-COM-1	Chief, Ops Control Office (Communications)	CD&SC	867-3156			
12		C. E. Fant	IS-DOC-2	Photography	KSC Headquarters Building Room 3390	867-6024			

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8. ITEM NO.	9. TEST CODE		
1	501 & Up	<p><u>TEST DESCRIPTION</u></p> <p>The Flight Readiness Test will be performed with the Space Vehicle in launch configuration except for use of a minimum amount of OAT equipment required for performance of the test. All critical electrical circuits will be slugged or jumpered.</p> <p>The Spacecraft abort sequences will be run in the Space Vehicle "minus time." Launch Vehicle will provide required support for spacecraft pad abort during minus count. The spacecraft will complete a compressed mission simulation with the Launch Vehicle completing a full duration simulation. Propellant loading will be simulated in this test.</p> <p>The Azusa, CCS, and C-band transponders will be interrogated and read out by range operations ground stations. The ODOP transponder will be interrogated and read out by the ground station. The up-data command receiver will be checked by a pre-programmed data format transmitted to the command receiver/decoder and the reception verified by the advanced guidance computer through PCM/DDAS telemetry.</p> <p>The ETR command transmitter will send cutoff and destruct signals closed loop to S-IC and S-II after S-II burn. After second burn, S-IVB RSCRs will be supplied with cutoff, propellant dispersion and safing signals, and the test will then be terminated.</p> <p>Test location - Pad</p> <p><u>TEST OBJECTIVES</u></p> <p>To assure that the vehicle is functioning properly in a configuration which is as near as possible to launch configuration when operated with all Pad GSE.</p> <p><u>TEST DURATION AND FREQUENCY</u></p> <p>Estimated time required - 13 hours. Procedure V-41307-SA-XXX (XXX denotes vehicle serial number) Procedure V-20017-SA-XXX</p>	
2			
3			

KSC SCHEDULING RESPONSIBILITIES				2. DATE September 22, 1967		4. PAGE NO. 125	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
5. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.	DISCUSSION		
ITEM NO.	TEST CODE	SD/RD ITEM NO.	SD/RD PAGE NO.				
1 NC	501 & Up				OD 40002 should be scheduled to support this test.		

REQUESTER'S RESPONSIBILITIES				2. DATE September 22, 1967		4. PAGE NO. 126
				3. REVISION NO. 0		5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002	DATED:	
ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION		
1 QJ	501 & Up	T38.3 PEGK	3402.4.4.1 PSRD	The customer must define this requirement by giving circuit number or more descriptive information so that circuit may be identified.		
2 QJ		1 KG -10 KG 2 KG	RD 2040 RD 2050.2	Items 2 - 10 KG on page RD 2040 and 2 KG on page RD 2050.2 are duplications and should be consolidated in future revisions of the RD.		
3 QJ		9 PG	RD 2050.4	This is a duplication of page RD 2050.12 Item 14 PG and should be deleted.		
4				Deleted.		
5 QJ		14 PG	RD 2060.9	EMC Van at LC-39, Pad A, Audio countdown. This requirement should be placed on RD page number 2050.		
6 QJ		1 JG	RD 2060.10	LCC-39 2P10A. Timing signals are provided to rack TCE-39. It is the requester's responsibility to distribute signals from this rack.		
7 QJ		PG		LCC-39, Room 4PLL, Signals are provided in rack 3. It is the requester's responsibility to distribute signals outside this rack and for displaying the Count Hold signal.		
8 QL		1 KG 2 KG 3 KG 4 KG	RD 3240 RD 3240.1	Requester to advise Bendix PSCL name of personal contact, company, telephone number, pressure and type of container, fitting sizes and number of samples desired. Contact Gas Lab, telephone number 867-2337, 12 hours prior to time sampling desired.		
9 QL		2 KG	RD 3200.1	Requester to contact Bendix PSCL Leak Detection Lab, telephone number 867-4060, 12 hours prior to time support desired. Advise name of personal contact, company, telephone number, type of system, pressure or vacuum, exact location and/or working level, type of test and results desired of test.		

REQUIREMENTS NOT MET		2. DATE September 22, 1967		4. PAGE NO. 127
		3. REVISION NO. 0		5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002		
8.	9.	10.	11.	12.
ITEM NO.	TEST CODE	SD/RD ITEM NO.	SD/RD PAGE NO.	DISCUSSION
1 QJ	501 & Up	1 JG - 4 JG	RD 2015.0	JRIG-C timing on audio tape recordings cannot be provided until central recording facility is completed.
2 QJ		1 JG	RD 2040.8 RD 2040.9	Support action has been taken to provide item RD 1 JG page 2040.3.2, Block 28, RF OIS Channel 225 to CIF, Room 307. This item will be committed when installation is complete.
3 QJ		1 HD 2 HD - 6 HD 6 HD 1 HD - 5 HD 5 HD - 6 HD 9 HD 11 HD - 17 HD 18 HD - 21 HD 22 HD 1 HD - 4 HD 7 HD	RD 2055.1 RD 2055.2 RD 2020.5 RD 2015.1 RD 2040.9.2 RD 2040.9.2 RD 2050.24 RD 2050.25 RD 2050.26 RD 2052.1 RD 2020.6	The abort advisory system is still in engineering design stage and is not operational at this time.
4 QJ		16 PG	RD 2050.12	Conductor event cables are operational as installed and are not documented unless specific circuits are desired.
5 QJ		5 HD - 9 HD	RD 2052.2	Administrative telephones are not considered operational equipment and are not to be obtained through requests in the RD. Requirements of this nature should be processed through Systems Support Branch, QJ-3.
6 QJ		4 PG	RD 2040.6	Mobile or portable radio or transceiver is not operational equipment and cannot be obtained through the RD. Support of this type is obtained by submitting a request to QJ-2.
7 QJ		5 HD	RD 2050.20	Reference console AA-6, Button should read #18 in lieu of #13 per HD.
8 QJ		1 NC	RD 2040.4	Inherent capability of the console dictates that point to point circuits must appear on Buttons 13 through 18 and are documented on page 2040.13.
9 QJ		5 HD - 7 HD	RD 2040.9.2	Support request has been initiated to provide TV audio to consoles (AA-5, AA-6, AA-7) and will be committed when work is complete (SR 9-6 with requested completion date of 10/1/67).

1. CLASSIFICATION (IF ANY)				2. DATE September 22, 1967		4. PAGE NO. 127.1	
REQUIREMENT NOT MET				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				7. NO. 40002		DATED:	
ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12.	DISCUSSION		
10 QJ	501 & Up	14 JG 15 JG	RD 2050.18.4 (Block 13) RD 2050.18.5 (Block 19)		Items should read RF OIS Channel 112-Console AB-2 Button 15 in lieu of Button 16 and RF OIS Channel 261-Button 16 in lieu of Button 15 and will be documented as such.		
11 QJ		14 HD	RD 2040.9.3 (Block 16 & 24)		Support request action has been taken to comply with this requirement (SR 9-10 completion date 9/27/67).		
12 QJ		5 HD-9 HD	RD 2040.9.2 (Block 13 & 14)		Support request action has been taken to comply with this requirement ;(SR 6-9 completion date 10/1/67).		
13 QJ		16 JG	RD 2050.18.6		Button requirements for point to point circuit between Consoles AA-3 and AA-4 should read Button #18 for both consoles in lieu of Button #2, #12, and #15 per coordination with JG.		
14 QJ		3 JG	RD 2040.11.4		Support request action has been taken to extend RF OIS Channel 156 to CIF Room 291 and will be committed when work is complete		
15 QJ		3 HD-4 HD	RD 2040.9.1		These items are for AS-502 only and will be committed when the SD is updated for AS-502.		
16 QJ		3 JG	RD 2040.11		a. The customer has submitted a CR (39-0676) for RF OIS equipment in Rooms 1M4, 2M16A and 3M6 which, will be committed when installed.		
					b. CR action (39-1134) has been taken for RF OIS in Room 25E12 which will be committed when installed.		
					c. The customer has submitted a CR for RF OIS in Room 25E15A which will be committed when installed.		
					d. The customer has submitted a CR (39-0274) for equipment in 8B of the ML which will be committed when installed.		
					e. CR action has been taken to provide RF OIS in Rooms 3P11 and 3P12 which will be committed when installed.		
17 QJ		TL2 PEGKD	PSRD 3402.4.3		Circuits GP58204 (Air Ground 1) and GP58219 (Air Ground 2) are for 503 and up. Circuits are being re-configured by MSC and will not be committed in this SD.		

REQUIREMENTS NOT MET				2. DATE September 22, 1967		4. PAGE NO. 127.2	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION			
18 QJ	501 & Up	T21 PEGK	PSRD 3402.4.4	Circuits GP58338 (Pri Astro Comm) and GP58374 (Bosu) will not be responded to in this SD, per coordination with MSC Holiday as they are for 503 and up.			
19 QJ		T37 PEGK	PSRD 3402.4.4	Console ACL8 does not have the equipment to terminate 2 or 4 wire circuits, support request action has been taken, if approved and when installed circuits will be committed.			
20				Deleted.			
21 QJ		14 PG 11 PG 12 PG	RD 2060.9 RD 2080.4 RD 2080.4	EMC Van located at LC-39, Pad A. A support request has been written to supply AMR B-1, hardline, and visual countdown. Tentative completion date of support request is 9/28/67			
22 QJ		9 JG	RD 2060.14	LCC-39 VAB Room 26E7. IRIG-E is not presently supplied to this room. A support request has been initiated with a tentative completion date of 9/28/67.			
23 QJ		3 KG	RD 2080	CX-39 ML#1. Countdown is anticipated operational in the White room by 11/1/67 per RFT-39.			
24 QJ		5 JG thru 7 JG	RD 2080.5	LCC-39 Room 2PIOA. Only one C/D display is provided at this time. Tentative installation date of two additional displays is 9/29/67.			
25 QJ		15 JG	RD 2080.6	EC-39 ML #1 260' level. Anticipated operational by 9/39/67.			
26 QJ		PG		CIF Room 173. 100 KHz is provided at 4V P-P vice 6V P-P.			
27 QJ		PG		LCC-39 Room 2P10 Rack 37. IRIG-E is not presently supplied to this room. A support request has been initiated with a tentative completion date of 10/13/67			
28				Deleted.			
29				Deleted.			
30 QJ		PG		CIF Room 205 cannot observe SC countdown due to present operational configuration of Central Countdown.			
31 QJ		1 KG	RD 3240	Specification NAA-MEC110-006, for Ethylene Glycol/Water Solution calls for Phosphoric Acid 0.2 to 0.5 instead of Triethanolamine. Advise specification desired prior to analytic commitment.			

1. CLASSIFICATION (IF ANY)				2. DATE September 22, 1967		4. PAGE NO. 127.3	
3. REVISION NO. 0				5. REPLACES PAGE(S)			
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8. ITEM NO.				9. TEST CODE		10. SD/RD ITEM NO.	
11. SD/RD PAGE NO.				12. DISCUSSION			
32 QJ	501 & Up	1 KG	RD 2015.2	Until the Central Recording Facility at CD&SC has additional facilities only nine circuits can be recorded simultaneously.			
33 QJ	3 HD- 4 HD	3 HD- 4 HD	RD 2040.9.1	These items are for AS 502 launch and will only be committed when this SD is updated for A/S 502.			
34 QJ	1 KG	1 KG	RD 2055	The requirement for OTV coverage to support White room operations has been submitted on CR 39-0196. Estimated completion date is unknown at this time.			
35 QJ	5 KG	5 KG	RD 208C	MSOB room 2340. Coordination with requester has revealed that this room should be 3430.			
36 QJ	14 KG	14 KG	RD 2500.5	ABRP program will not be provided.			
37 QJ	15 KG	15 KG	RD 2500.5	UPLK program will not be provided.			
38 QJ	12 JG 12 JG 1 JG 3 HD 14 JG 15 JG 16 JG	12 JG 12 JG 1 JG 3 HD 14 JG 15 JG 16 JG	RD 2015.18.2 RD 2050.18.2 RD 2040.9 RD 2020.2 RD 2050.18.4 RD 2050.18.5 RD 2050.18.6	The LVO Staff Loop cannot be committed until completion of CR action that has been initiated to install the necessary equipment in required consoles. Those consoles having equipment are committed on the applicable 2040 pages of this SD.			
39 QJ	1 HD- 2 HD 40 JG	1 HD- 2 HD 40 JG	RD 2040.9.1 RD 1200.11	a. Decommutation of DP-LA will not be provided.			
40 QJ	41 JG 42 JG 43 JG	41 JG 42 JG 43 JG	RD 1200.11 RD 1200.11 RD 1200.12	b. Verbal readouts of the required parameters will not be provided. An IEM instrumentation monitor is required to perform this function			
41 QJ	14 PG	14 PG	RD2060.9	EMC Van at LC-39, Pad A, Audio Countdown cannot be provided as equipment is not installed.			

TERMINAL COUNTDOWN

6. TITLE APOLLO/SAUTURN V SD-FLIGHT READINESS TEST				2. DATE September 22, 1967		4. PAGE NO. 130
				3. REVISION NO. 0		5. REPLACES PAGE(S)
7. NO. 40002				8. DATES:		
9. ITEM NO.		10. TEST CODE		11. OPERATION OR SERVICE		
1		501 & Up		12. REMARKS		
		TIME				
		A. START				
		B. COMPLETE				
		-7hrs15min		IU Power Up Preparations		
		-7hrs00min		S-IC, S-II and S-IVB Power On and Functional Tests		
		-4hrs55min		RF Systems on for Range Checks		
		-4hrs45min		RSCR Functional Checks		
		-4hrs35min		T/M Systems Checkout		
		-4hrs17min		Propellant Dispersion Systems Checks		
		-4hrs05min		Simulated Propellants Loading		
		-40min00sec		USB Ground Station Support CCS Checks		
		-2hrs20min		EDS Test		
		-1hr10min		USB Ground Station Support CCS Checks		
		-1hr00min		RF and T/M Systems Checkout		
		-45min00sec		Range Safety Checks		
		-37min00sec		Power Transfer Test		
		-29min00sec		Preflight Preparations		
		-25min00sec		T/M Recorders ON		
		-4min00sec		Initiate Firing Command		
		-3min10sec		S-IC Time for Ignition		
		-0min8.9sec		Test Function Vehicle Liftoff. Start L/V Mission Simulation		
		+00min00sec		S-IC Burn		
		+00min00sec		S-II Camera Motor ON		
		+2min27sec		S-IC/S-II Separation		
		+2min28sec		S-II Engine Burn		
		+2min29sec		S-II Second Plane Separation		
		+2min58sec		S-II Cameras (3) Eject		
		+3min5.3sec		S-II/S-IVB Separation		
		+8min31sec		S-IVB First Burn		
		+8min31sec		S-IC/S-II Propellant Dispersion Command		
		+10min00sec		S-SC/S-II Stage Power Off		
		+10min40sec		Count Recycle to T + 00 minutes 00 seconds		
		+11min22sec		Coast Period		
		+00min00sec		S-IVB Second Burn		
		+2hrs56min		Escape Mode		
		+3hrs07min		S-IVB Propellant Dispersion Command		
		+7hrs19min		End Operating Steps - Begin Post Test Operations		
		+7hrs20min				

SUMMARY OF FREQUENCY UTILIZATION

6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				7. NUMBER 40002		2. DATE September 22, 1967		4. PAGE NO. 310.0			
10. VEHICLE						3. REVISION NO. 0		5. REPLACES PAGES			
9. ITEM NO.		9. TEST CODE		11. FREQUENCY (MHZ) A. XMITTER		12. EMISSION CHARACTER		13.			
1		501 & Up		237.8		FM, BW-1 mc at 55db 10 w Av Pwr.		A/G TM			
2				296.8		AM, 5 w AV. Pwr.		VHF Voice			
3				450		FM		Up-link-Data Command System			
4				5765		Pulse 2.5w Peak		A/G Transponder			
5				5690		Pulse		C-Band Transponder Receive			
6				2287.506		CW-10 w		SC Transmitter			
7				2106.40625		CW		SC Receive			
18. REMARKS		16. SPECIAL MONITORING REQUEST Open loop radiation clearance is required for these frequencies for duration of test.								17. LOCATION	

SUMMARY OF FREQUENCY UTILIZATION

4. PAGE NO. 310.1										
5. REPLACES PAGES										
2. DATE September 22, 1967										
3. REVISION NO. 0										
7. NUMBER 40002										
DATE										
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST										
10. VEHICLE S-IC Stage										
8. ITEM NO.	9. TEST CODE	11. FREQUENCY MHz		12. EMISSION CHARACT	13.	PURPOSE	14. GUARD BAND	15. TIME	16. SPECIAL MONITORING REQUEST	17. LOCATION
		A. XMITTER	B. REC							
1	501 & Up	960	450	FM	Range Safety					
		240.2	890	CW	ODOP					
		252.4		PAM/FM/FM	TLM-Link AF-1					
		231.9		PAM/FM/FM	TLM-Link AF-2					
		235.0		PAM/FM/FM	TLM-Link AF-3					
		256.2		SS/FM	TLM-Link AS-1					
		244.3		SS/FM	TLM-Link AS-2					
				PCM/FM	TLM-Link AP-1					
18. REMARKS										

SUMMARY OF FREQUENCY UTILIZATION										2. DATE September 22, 1967		4. PAGE NO. 310.2			
										3. REVISION NO. 0		5. REPLACES PAGES			
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST										7. NUMBER 40002				DATE	
10. VEHICLE															
S-II Stage															
8.	9.	11. FREQUENCY MHz		12.	13.	14.		15.	16.	17.					
ITEM NO.	TEST CODE	A. XMITTER	B. REC	EMISSION CHARACT	PURPOSE	GUARD BAND		TIME	SPECIAL MONITORING REQUEST	LOCATION					
2	501 & Up	241.5 234.0 229.9 248.6 227.2 236.2	450	PAM/FM/FM PAM/FM/FM PAM/FM/FM PCM/FM SS/FM SS/FM	Range Safety TIM-Link BF-1 TIM-Link BF-2 TIM-Link BF-2 TIM-Link BP-1 TIM-Link BS-1 TIM-Link BS-2										
18. REMARKS															

SUMMARY OF FREQUENCY UTILIZATION

2. DATE September 22, 1967		4. PAGE NO. 310.3
3. REVISION NO. 0		5. REPLACES PAGES
7. NUMBER 40002		DATE

6. TITLE
APOLLO/SATURN V SD-FLIGHT READINESS TEST

10. VEHICLE
S-IVB Stage

8. ITEM NO.	9. TEST CODE	11. FREQUENCY MHz		12. EMISSION CHARACT	13. PURPOSE	14. GUARD BAND	15. TIME	16. SPECIAL MONITORING REQUEST	17. LOCATION
		A. XMITTER	B. REC						
3	501 & Up		450	FM	Range Safety				
	501 & 502	226.2		SS/FM	TLM-Link CS-1				
		232.9		PCM/FM	TLM-Link CP-1				
		258.5		PAM/FM/FM	TLM-Link CF-1				
		246.3		PAM/FM/FM	TLM-Link CF-2				
		233.8		PAM/FM/FM	TLM-Link CF-3				

18. REMARKS

SUMMARY OF FREQUENCY UTILIZATION					2. DATE September 22, 1967		4. PAGE NO. 310.4				
					3. REVISION NO. 0		5. REPLACES PAGES				
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST			7. NUMBER 40002		DATE						
10. VEHICLE INSTRUMENT UNIT											
8.	ITEM NO.	9. TEST CODE	11. FREQUENCY MHz A. XMITTER B. REC		12. EMISSION CHARACTER	13.	PURPOSE	14. GUARD BAND	15. TIME	16. SPECIAL MONITORING REQUEST	LOCATION
4		501 & Up	2282.5 5000.0	2101.8 5060. ¹⁹⁴ 5690.0	Phase Mod. CW Pulse FM/FM PAM/FM/FM SS/FM PCM/FM PCM/FM		TLM - Link DP-1B (CCS) Glotracs C-Band Radar TLM - Link DF-1 TLM - Link DF-2 TLM - Link DS-1 TLM - Link DP-1 TLM - Link DP-1A				
18. REMARKS											

GROUPED SUPPORT INSTRUMENTATION - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 1000	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED	

8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12. DISCUSSION
1 PG	501 & Up	4 JG	RD 1000	ODOP ground station will interrogate open loop and read out the ODOP transponder.
2 PG		5 JG	RD 1000	CIF will record IV telemetry links.
3 PG		6 JG	RD 1000	CIF will record AGC and signal strength. CIF will report all monitored out of tolerance parameters via point to point telephone.
4 PG	TL PEGKD 8 JG		PSRD 3402.1 RD 1000	ALDS will be provided to validate data link transmission to MCC-H.
5 PG		1 KG	RD 1000.1	CIF will support requirements levied in RD 40002.

METRIC TRACKING RECORDINGS				2. DATE September 22, 1967		4. PAGE NO. 1130	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
5. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002		DATED:			
8.	9.	10.	11.	12.	DISCUSSION		
ITEM NO.	TEST CODE	SD/RD ITEM NO.	SD/RD PAGE NO.				
1 PG	501	1 JG	RD 1130		ODOP will record analog signal strength on strip charts.		
2 PG	& Up	2 JG	RD 1130		ODOP will record doppler data on oscillograph.		

DATA SUPPORT - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 1200	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	DISCUSSION		
1 PG	501 & Up	1 JG	RD 1200		<p><u>General Comments</u></p> <p>a. to c.</p> <p>1. Oscilloscope Recordings - Sixteen Traces</p> <p>a. Deflection: 5/8 or .625 inches.</p> <p>b. Speed: .25 inch/sec for all records except as follows: 4 inches/sec for FM/FM, FM/FM/FM and SSB records.</p> <p>c. Timing: 1 pps countdown (plus) time on one edge and 2 pps IRIG Format C on the other.</p> <p>d. Reference Traces: Two reference traces will be used, one at each edge inside timing traces.</p> <p>e. Data Channels: Sixteen data channels are provided.</p> <p>f. Calibration: (1) The recorder calibration for all records, except those consisting of SSB measurements, will consist of at least five incremental steps ranging from 0 to 100% of full scale. For PCM measurements and PAM handled as digital data, 0% is equivalent to 24 bits and 100% is equivalent to 999 bits. For FM/FM measurements 0% is low band edge and 100% is high band edge. (2) SSB records will contain a 1500 cycle station calibration at the beginning and end of the record. The amplitude of signal will be the same on all data traces and will be equivalent to that produced by 2 volts peak-to-peak data applied to the airborne assembly.</p> <p>g. Data:</p> <p>(1) Any combination of PCM/FM and PAM/FM/FM.</p> <p>(2) Records with only SS/FM in channel order.</p> <p>(3) Records with only FM/FM in channel order.</p> <p>(4) Records with only FM/FM/FM in channel order.</p>		

DATA SUPPORT - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 1200.1	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION			
1 PG (Contd)	501 & Up	1 JG	RD 1200	2. Strip Chart Recorders - Eight Channels. a. Deflection: 40 mm b. Speed: Normal speed 2 mm/sec. 5, 10, 20, 50, 100 and 200 mm/sec also available. c. Timing: 1 pps countdown plus time on one edge and 2 pps IRIG Format C on the other. d. Reference Traces: Timing traces at both edges will be used as the reference trace e. Data Channels: Eight data channels are provided. f. Calibration : The recorder calibration for all records, except those consisting of SSB measurements, will consist of at least five incremental steps ranging from 0 to 100% of full scale. (For PCM measurements and PAM handled as digital data, 0% is equivalent to 24 bits and 100% is equivalent to 999 bits). For FM/FM measurements 0% is Low Band edge and 100% is High Band edge. g. Data: Any combination of PCM/FM and PAM/FM/FM and discrete measurements if treated as analog. 3. Event Recorders: Sixty Traces. a. Deflection : 1/8 or .125 inches. b. Speed: Normal speed is .25 mm/sec. Speeds: .5, 1, 2.5, 10, 25, 50, and 100 mm/sec. are also available c. Timing: 1 pps countdown (plus) time and 2 pps IRIG Format C will be placed on traces 59 and 60. d. Reference Traces: N/A. e. Data Channels: Five PCM words (10 bits) will be placed on 50 traces bit by bit order.			

DATA SUPPORT - GENERAL				2. DATE	4. PAGE NO.
				September 22, 1967	1200.2
				3. REVISION NO.	5. REPLACES PAGE(S)
				0	
				7. NO.	DATED
				40002	
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				12.	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	DISCUSSION	
1 PG (Contd)	501 4 13	1 JG	RD 1200	<p>f. Calibration: N/A</p> <p>g. Data: Single bit discretes placed in bit by bit order.</p> <p>4. General:</p> <p>a. The same telemetry channel should not be placed on more than one record or on more than one trace on a record.</p> <p>b. If PAM is not available the equivalent PCM channel will be provided.</p> <p>d. SC 4020 plots will use 600 points per plot.</p> <p>e. Information only. Relative to recording request ground rules.</p> <p>f. Information only. Relative to special trouble shooting submitted, KSC Form 22-129</p> <p>g. Information only. Relative to Telemetry Format Annex listed on applicable RD 050.1 page.</p> <p><u>Oscilloscope Records S-IC</u></p> <p>a. Records TA-003, TA-004, and TA-005 will be supplied as requested.</p> <p>b. Records TA-006, TA-008 thru TA-018 will be supplied as requested. However, the recorder speed will be 0.25 in/sec instead of 0.4 in/sec.</p> <p>c. Records TA-037, TA-500, and TA-501 are special records and will be supplied as requested on a non interference basis with station operations.</p> <p><u>Strip Charts</u></p> <p>a. Record TA-037 will be supplied at a recorder speed of 5 mm/sec.</p> <p>b. Record H9A003, H9A004, H9Z005 thru H9Z022 will be supplied at a recorder speed of 5mm/sec.</p>	
2 PG		2 JG	RD 1200.1		
3 PG		3 JG	RD 1200.1		

1. CLASSIFICATION (IF ANY)			2. DATE		4. PAGE NO.	
DATA SUPPORT - GENERAL			September 22, 1967		1200.3	
			3. REVISION NO.		5. REPLACES PAGE(S)	
			0			
6. TITLE			7. NO.		DATED	
APOLLO/SATURN V SD-FLIGHT READINESS TEST			40002			
ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION		
4 PG	501 & Up	4 JG	RD 1200.1	LCC Data Evaluation will be provided for display of all data.		
5 PG		5 JG	RD 1200.1	SC 4020 plots and engineering unit printouts of A-504 thru A-565 and A-576 thru A-586 will be provided.		
6 PG		6 JG	RD 1200.1	Digital printout of S-IC airborne bilevel discretes will be provided.		
7 PG	H3 PEK 7 JG		3402.15 RD 1200.1	English language computer dump of S-IC discretes from DEE 6 will be provided.		
8 PG		8 JG	RD 1200.2	CRT display and strip chart recorders will be provided in CIF 307.		
9 PG		9 JG	RD 1200.2	Magnetic tape recording will be made as requested.		
10 PG		10 JG	RD 1200.2	<u>Airborne Tape Recorder Playback</u>		
				a. TA-003 and TA-004 will be supplied at a recorder speed of 0.4 in/sec.		
				b. TA-006 thru TA-018 will be supplied as requested at a recorder speed of 0.25 in/sec.		
				c. TA-019 thru TA-034, TA-037, TA-039 thru TA-064 and TA-097 will be supplied at a recorder speed of 5 mm/sec.		
11 PG		11 JG	RD 1200.2	Signal strength records will be made as requested.		
12 PG		12 JG	RD 1200.3	<u>General Comments</u>		
				a. thru d. Reference item 1 PG page 1200.		
				e. Information only relative to obtaining exact start and stop time of any dat requested.		
				f. Information only relative to special trouble shooting requests submittal, KSC Form 22-129.		

DATA SUPPORT - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 1200.4	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
5. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	DISCUSSION		
12 PG (Contd) 13 PG	501 & Up	12 JG 13 JG	RD 1200.3 RD 1200.4		g. Information only. <u>Oscillograph</u> a. Records TC-001 thru TC-004 will be provided at a recorder speed of 0.4 in/sec instead of 0.25 in/sec and IRIG C (2 pps) timing instead of 1 ppm IRIG D. b. Records TC-001 thru TC-003 from the onboard tape recorder playback will be provided at a recorder speed of 0.4 in/sec instead of 1.0 in/sec.		
14 PG		14 JG	RD 1200.4 RD 1200.5		<u>Strip Charts</u> a. 1. Records TC-005 thru TC-065 and TC-127 thru TC-133 will be provided at a recorder speed of 2 mm/sec. 2. Records TC-066, TC-067, TC-069, TC-070, TC-071, TC-086 thru TC-091 and TC-131 thru TC-133 will be provided at a recorder speed of 2 mm/sec. b. Records TC-008, TC-020 and TC-021 will be provided at a recorder speed of 5 mm/sec. c. Records TC-080, TC-093, and TC-130 will be provided as special records if they are not run in real time in Room 307. d. Records TC-010, TC-020 and TC-021 will be provided at a recorder speed of 10 mm/sec. SC 4020 plots of all S-IVB measurements will be provided. A discrete printout of bilevel S-IVB event measurements will be provided. English language DEE-6 dump of S-IVB discretes will be provided. LCC Data Evaluation. Rooms will be provided.		
15 PG		15 JG	RD 1200.5 RD 100.6				
16 PG		16 JG	RD 1200.6 RD 100.6				
17 PG		H3 PEX 17 JG	3402.15 RD 1200.6				
18 PG		18 JG	RD 1200.6				

5. TITLE				2. DATE	4. PAGE NO.
DATA SUPPORT - GENERAL				September 22, 1967	1200.5
8. PROJECT/SUBJECT V. SD FLIGHT READINESS TEST				3. REVISION NO.	5. REPLACES PAGE(S)
9. TEST CODE				0	
10. ITEM NO.	11. SD/RD ITEM NO.	12. SD/RD PAGE NO.	DISCUSSION	7. NO.	DATED:
19 PG	501	19 JG	CRT display for S-IVB will be provided. Recorders C1, C4, and C5 will be provided. Sync. Switching will be accomplished 30 minutes prior to CIF participation in test.	40002	
20 PG	& Up	20 JG	Records TC-138 thru TC-140 will be displayed in real time in CIF Room 291.		
21 PG		21 JG	<u>General Comments</u> a. Reference item 1 PG page 1200. b. SC 4020 plots will be marked with telemetry channels and measurement numbers. c. For information only relative to data list in the applicable RD on SD page 050.1. d. For information only relative to special trouble shooting requests on KSC Form 22-129.		
22 PG		22 JG	<u>General Comments</u> a. Group A records - Oscillograph 1. Records TD-001 thru TD-016 and TD-020 thru TD-028 will be provided as requested. b. Group B records - Event Recordings 1. Records TD-017 thru TD-19 will be provided as requested. 2. Record TD-038 is a special record and will be provided on a non-interference basis with station operations. c. Group C records - Strip Charts 1. Records TD-033 thru TD-037 will be provided as requested. 2. Records TD-029 thru TD-032 will be provided as special records on a non-interference basis with station operations.		

DATA SUPPORT - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 1200.6	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.	DISCUSSION		
ITEM NO.	TEST CODE	SD-RD ITEM NO.	SD-RD PAGE NO.				
23 PG	501 & Up	23 JG	RD 1200.7		Group C records TD-036 will not be supplied under this item. They will be supplied as special records under item 22 and the time span will be an addition to these records.		
24 PG		24 JG	RD 1200.8		Group F records are not a telemetry requirement and will not be supplied.		
25 PG		25 JG	RD 1200.8		Group G: If equivalent data are not supplied on other records, Group G will be supplied as Special Records on a non-interference basis with station operations.		
26 PG		26 JG	RD 1200.8		Event record (GroupB) TD-038 is a Special Record and will be provided on a non-interference basis with station operations.		
27 PG		27 JG	RD 1200.8		Computer tabulations of Group D in engineering units will be provided.		
28 PG		28 JG	RD 1200.8		Computer tabulations of Group D in voltage will be provided.		
29 PG		29 JG	RD 1200.8		Computer tabulation of Group F will be provided.		
30 PG		30 JG	RD 1200.9		A voltage printout of Group D will be provided.		
31 PG		31 JG	RD 1200.9		Computer tabulation of error messages will be provided.		
32 PG		32 JG	RD 1200.9		Computer tabulation of Group G will be provided.		
33 PG		33 JG	RD 1200.9		<u>SC 4020 Plots</u> a. SC 4020 Plots of Group D in engineering units will be provided. b. SC 4020 Plots (GPLT) will be provided. c. SC 4020 Plots of Group E in engineering units will be provided.		

DATA SUPPORT - GENERAL				2. DATE	4. PAGE NO.
				September 22, 1967	1200.7
				3. REVISION NO. 0	5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002	DATED:
ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION	
34 PG	501 & Up	34 JG	RD 1200.9	LVDC-2 real time guidance will be provided.	
35 PG		35 JG	RD 1200.10	Computer printout of DEE-6 alphanumeric tape will be provided.	
36 PG		36 JG	RD 1200.10	Flight Computer Sector dump will be provided.	
37 PG		37 JG	RD 1200.10	Octal dump H60-603 will be provided if requested.	
38 PG		38 JG	RD 1200.10	a. CRT display in CIF 307 will be provided.	
				b. Group H records will be provided in the CIF Ground Station in accordance with preliminary information received from IBM.	
39 PG		39 JG	RD 1200.10	a. Magnetic tape recording of IN telemetry links will be made.	
				b. CIF antenna site will record S-Band Link DP-1A on magnetic tape.	
40 PG		40 JG	RD 1200.11	a. Reference Item 39 QJ, SD page 127.3.	
41 PG		41 JG	RD 1200.11	b. Reference Item 40 QJ, SD page 127.3.	
		42 JG	RD 1200.11		
		43 JG	RD 1200.12		
42 PG		44 JG	RD 1200.13	<u>General Comments</u>	
				a., b., and c. See item 1 PG page 1200.	
43 PG		45 JG	RD 1200.13	Oscilloscope records TB-027 thru TB-029, TB-123 and TB-124 will be provided at a recorder speed of 0.4 in./sec.	

DATE				2. DATE		4. PAGE NO.	
				September 22, 1967		1200.8	
				3 REVISION NO.		5 REPLACES PAGE(S)	
				0			
6. TITLE				7 NO.		DATED:	
APOLLO/SATURN V SD-FLIGHT READINESS TEST				40002			
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12. DISCUSSION			
44 PG	501 & Up	46 JG	RD 1200.13	<u>8-Channel Strip Charts</u> a. TB-001 thru TB-026 and TB-030 thru TB-107 will be supplied at a recorder speed of 2 mm/sec. b. H9B001 thru H9B007 will be supplied at a recorder speed of 2 mm/sec. Event Records TB-108 thru TB-113 will be supplied at a recorder speed of 2.5 mm/sec. Magnetic tape recording will be made as requested. LCC Data Evaluation Room will be provided. Tabulation and 4020 plots of B-001 thru B-647 and HB001 thru HE-054 will be provided. Printout of all S-II bilevel measurements will be provided. English language dump Of S-II discretes from the DEE-6 will be provided. See 1780 pages for F&E measurements. Recorder formats 1, 2, and 3 will be provided in real time in CIF 307. Signal strength records of CIF receivers will be provided. CRT display for KSC flight support controllers will be provided. LVDC Status Data Display panel will be provided. Audio tape playback machines will be provided. See page 2210 for response. See page 125 for response. Information only. Telemetry support for CSM Computer processed data.			
45 PG		47 JG	RD 1200.13				
46 PG		48 JG	RD 1200.13				
47 PG		49 JG	RD 1200.14				
48 PG		50 JG	RD 1200.14				
49 PG		51 JG	RD 1200.14				
50 PG		52 JG	RD 1200.14				
51 PG		53 JG	RD 1200.14				
52 PG		54 JG	RD 1200.14				
53 PG		55 JG	RD 1200.15				
54 PG		56 JG	RD 1200.15				
55 PG		57 JG	RD 1200.15				
56 PG		58 JG	RD 1200.15				
57 PG		59 JG	RD 1200.15				
58 PG		1 ZG	RD 1200.16				
59 PG		2 ZG	RD 1200.16				

DATA SUPPORT - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 1200.9	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.	DISCUSSION		
ITEM NO.	TEST CODE	SD/RD ITEM NO.	SD/RD PAGE NO.				
60 PG	501 & Up	T1 PEGK	PSRD 3402.1.1		Launch vehicle and spacecraft telemetry links shall be received, recorded, decommutated, formatted and transmitted to MCC-H via HS data lines from MIL and via ALDS (40.8 lines) from KSC/CIF using mission operational computer programs. Launch vehicle TM readouts from MSC (CIF Room 307) Network Propulsion, and G and N consoles will be provided. Five monitor readouts (as specified in the Data Acquisition Plan, (Annex A) from MIL USB and CIF/Data Core will be provided. Magnetic tape recording of all operational telemetry links for subsequent playback will be provided at CIF and MIL.		

COMMAND CONTROL - FUNCTIONS				2. DATE September 22, 1967		4. PAGE NO. 1300	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.	DISCUSSION		
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.				
1 NC	501 & Up	T1 PEGKD 1 KG	PSRD 3402.2.1 RD 1300		Command Up-Data Link- CKAFS Command Transmitter will be scheduled by NC-4 to transmit a 450 MC carrier to be modulated by the SC up-data link commands.		
2 NC		1 HD	RD 1300.1		Abort Advisory System Events - The LC 39 Abort System is in the design/engineering stage. Critical wire pairs will be provided when this is completed, the abort installed and circuits engineered.		

A/G GROUND COMMUNICATIONS - GROUND SUPPORT INSTRUMENTATION - GENERAL					2. DATE September 22, 1967	4. PAGE NO. 1400
TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST					3. REVISION NO. 0	5. REPLACES PAGE(S)
					7. NO. 40002	
8.	9.	10.	11.	12.	DISCUSSION	
ITEM NO.	TEST CODE	SD/RD ITEM NO.	SD RD PAGE NO.			
1 NC	501 & Up	1 KG	RD 1400		This item is responded by Item 1 NC, SD page 125.	

COMPOSITE SYSTEMS - GROUND SUPPORT INSTRUMENTATION - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 1600	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.			
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.	DISCUSSION			
1 NC	501 & Up	1 KG 2 KG	RD 1600 RD 1600	These items are responded to on SD page 125.			

SPECIAL DATA SUPPORT				2. DATE September 22, 1967		4. PAGE NO. 1780	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.			
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.	DISCUSSION			
1 PG	501 & Up	1 JG	RD 1780.1	2043 Press, air S-II aft comp	0/5 psig	SC/DIG	
2 PG		2 JG	RD 1780.1	2044 Press, air S-II aft slect comp	0/5 psig	SC/DIG	
3 PG		3 JG	RD 1780.1	2045 Press, air S-II fwd comp	0/5 psig	SC/DIG	
4 PG		4 JG thru 6 JG	RD 1780.1	Deleted by requester.			
5 PG		7 JG	RD 1780.1	Temp, air S-II aft comp 14" duct	0/300°F	MP	
6 PG		8 JG	RD 1780.1	See page 126 for response.			

GROUND COMMUNICATIONS - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 2000
				3. REVISION NO. 0		5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002	DATED:	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	DISCUSSION	
1 QJ	501 & Up	1 HD - 4 HD 3 HD - 5 HD 11 HD	RD 2000 - RD 2000.3 RD 2020.2- RD 2020.4 RD 2050.26		These pages are all general information and will not be responded to in the communications section of this SD unless further defined on applicable pages of the RD.	
2 QJ		5 HD - 8 HD	RD 2000.4- RD 2000.7 RD 2020 RD 2020.1 RD 2020.5 RD 2020.6 RD 2050.24 RD 2050.26 RD 2055.1 RD 2055.2		The LC-39 Abort System is in the design/engineering stage. When this is completed, abort panels installed and circuits engineered, critical wire pairs will be provided (reference Item 3 QJ, SD page 127).	
3 QJ		12 JG	RD 2015.18.2		Reference Item 38 QJ, SD page 127.3.	
4 QJ		3 HD - 4 HD	RD 2040.9.1		Reference Item 33 QJ, SD page 127.3.	

1. CLASSIFICATION (IF ANY)				2. DATE September 22, 1967		4. PAGE NO. 2020	
COMMUNICATIONS SUPPORT - GENERAL				3. REVISION NO. 0		5. REPLACES PAGE(S)	
5. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.			
ITEM NO.	TEST CODE	SD-RD ITEM NO.	SD-RD PAGE NO.	DISCUSSION			

111	TEST SUPER.	121	L/V TEST COND.	131	DATA DISPLAY	141	PAD SAFETY	151	IU OPS ENGR.	161	S-1VB OPS. ENGR.	171	S-11 OPS. ENGR.	181	S-1C OPS ENGR.	211	CHIEF S/C TEST COND.	221	CSM PAD LEADER	231	LM PAD LEADER	241	ODOP	251	INST. CONT. ROLLER	261	SUPPORT CONT. ROLLER
112	TEST SUPPORT CONTROLLER	122	FACILITY & ENVIRON. MEAS.	132	LAUNCHER	142	S/V PNEU. ECS	152	IU MECH.	162	S-1VB MECH. & ORD.	172	S-11 MECH. & ORD.	182	S-1C MECH. & ORD.	212	STC CSM (ACE-CR)	222	CSM EPE (NAA)	232	LM SYS. TEST ENGR.	242	ODOP	252	S/V UNB.	262	S/V PNEU-MATICS.
113	QTY CONTROL ENG.	123	L/V FLIGHT CONTROL	133	L/V OXIDIZER	143	L/V FUEL	153	IU FLIGHT COMP.	163	S-1VB PROP.	173	S-11 PROP.	183	S-1C PROP.	213	CSM INST.	223	CSM EPS	233	LM EPS	243	LM INST.	253	FACILITY AND ENVIRON. MEAS.	263	HPC C/S & HE PURGING
114	L/V STAB. & LATING	124	LSE ELEC.	134	L/V PROP. & ELEC.	144	S-1C MEAS.	154	IU ELEC. (STAGE)	164	S-1VB ELEC. (STAGE)	174	S-11 ELEC. (STAGE)	184	S-1C ELEC. (STAGE)	214	CSM COMM.	224	CSM P/C CRTD	234	SUPPORT TROUBLE SHOOTING	244	SUPPORT TROUBLE SHOOTING	254	FACILITY AND ENVIRON. MEAS.	264	HPC WOA. SYS
115	CHARGER OP'S	125	L/V TROUBLE SHOOTING	135	L/V TROUBLE SHOOTING	145	L/V DNAS	155	RCA 110A GND. COMP.	165	S-1VB GND. ELEC.	175	S-11 GND. ELEC.	185	S-1C GND. ELEC.	215	CSM G & N	225	CSM SCS	235	CSM TROUBLE SHOOTING	245	CSM TROUBLE SHOOTING	255	FACILITY AND ENVIRON. MEAS.	265	HPC ELEC. CONT'S.
116	S-1C MEAS.	126	S-11 MEAS.	136	S-1VB MEAS.	146	IU MEAS.	156	IU TW	166	S-1VB TW	176	S-11 TW	186	S-1C TW	216	CSM ECS	226	CSM SPS	236	LM TROUBLE SHOOTING	246	LEM PROP.	256	CIF TELEM. GND. STA.	266	OZ PAL. OPS
117	QIS CONTROL ENG.	127	L/V INST. TROUBLE SHOOTING	137	L/V INST. TROUBLE SHOOTING	147	QIS/AN CLOCK & DEE	157	IU R.F.	167	L/V INST. TROUBLE SHOOTING	177	L/V INST. TROUBLE SHOOTING	187	S-1C RP	217	CSM AZIO-MED	227	CSM ECS (LIFE SUPP.)	237	S/C Q.C.	247	BATA DISPLAY	257	CIF TELEM. IND. STA.	267	ESC TILING
118	S-1C MEAS.	128	S-11 MEAS.	138	S-1VB MEAS.	148	IU MEAS.	158	IU GND. ELEC.	168	S-1VB MEAS.	178	S-11 MEAS.	188	PAGING	218	CSM CSZ	228	CSM ACE	238	LM AC	248	LM CSE	258	CIF TEL. STA.	268	ESC PAGING

COMMUNICATIONS SUPPORT - GENERAL

2. DATE

September 22, 1967

4. PAGE NO.

2020.1

5. REPLACES PAGE (S)

3. REVISION NO.

0

6. TITLE
APOLLO/SATURN V SD-FLIGHT READINESS TEST

7. NO.

40002

DATED:

8. ITEM NO. 9. TEST CODE 10. SD RD ITEM NO. 11. SD RD PAGE NO.

NET NUMBER
AND
FUNCTION OR NAME

CDSC REMOTE DISTRIBUTION VIA
KSC 304 SWITCH

NAME

KSC NO./

STATION OR LOCATION

A C

Additional
Information

2 QJ 501
&
Up

MCCH VIA GP58200
GP58201
GP58214
GP58224
GP58225
GP58374
GP58767
GP58768
GP58769
GP58771
GP58772
GP58773
GP58775
GP58776
GDA58781
GP58782
GP58786 (Deleted)
GP58185

X

X X

X

X X

X X

X X

X

X

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X

COMMUNICATIONS SUPPORT - GENERAL

2. DATE

September 22, 1967

4. PAGE NO.

2020.2

3. REVISION NO.

5. REPLACES PAGE (S)

6. TITLE

APOLLO/SATURN V SD - FLIGHT READINESS TEST

7. NO.

40002

DATED:

Overhead Restoration
MSR Network
MSR Prop.
MSR Nav.
CSM F/C Cryo.
CSM RCS
CSM Inst.
CSM Comm.
CSM EPS
CSM TPE
Mission Dir. Loop
PRI Astro Comm.
APO Chief Eng.
Command O. W.
BH SC Comm.
Flight Director
Cape Recovery
Comm. O. W.
SRO Net
CSM Aeromed-217
CMD. Handover
Booster TM
TV Conf.

NET NUMBER
AND
FUNCTION OR NAME

CDSC REMOTE DISTRIBUTION VIA
KSC 758C SWITCH

KSC NO./
21C0072
21C0045
21C0157
21C0235
21C0185
21C0061
21C0065
21C0062
21C0163
21C0158
21C0074
21C0234
21C0233
21C0210
21C0205
21C0056
21C0208
21C0232
21C0207
21C0048
21C0047
21C0049
21C0231

STATION OR LOCATION

A C

MOCH VIA GP58202

GP58203

GP58206

GP58207

GP58210

GP58213

GP58217

GP58218

GP58221

GP58250

GP58254

GP58338

GP58766

GP58770

GP58774

GP58777

GP58778

GP58779

GP58780

GP58783

GP58784

GP58785

GP58208

GP62342

Additional
Information

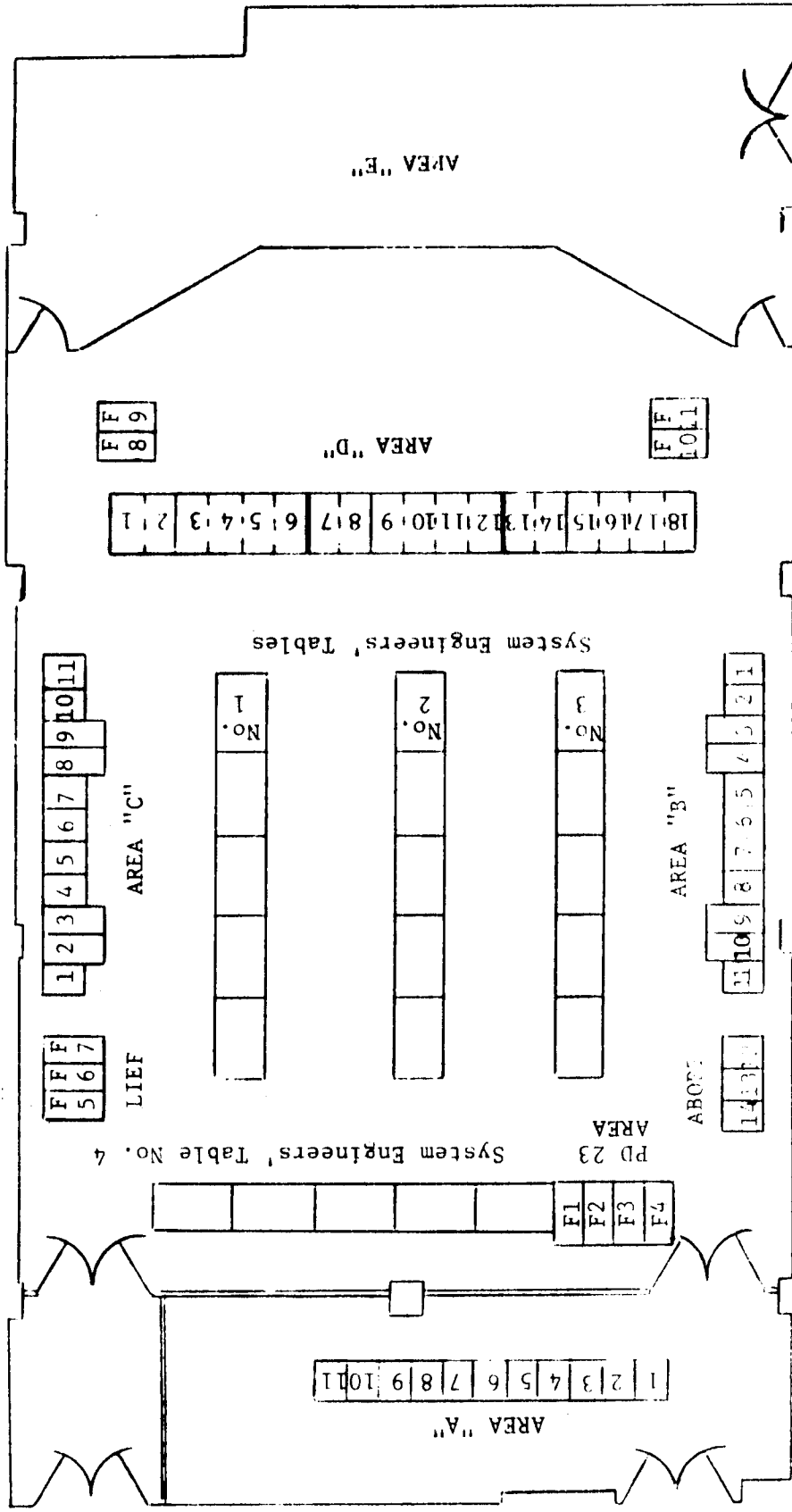
3 501
&
Up

1. CLASSIFICATION (IF ANY)			2. DATE September 22, 1967		4. PAGE NO. 2021
COMMUNICATIONS SUPPORT - VOICE RECORDINGS			3. REVISION NO. 0		5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST			7. NO. 40002		DATED:
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	
1 QJ	501 & Up	1 JG-4 JG 1 KG	RD 2015 RD 2015.2	Voice recording(s) of intercommunication channel(s) will be made on 1/4 inch magnetic tape in the Central Recording Facility at the CDSC. Tape boxes will be marked in accordance with KSC Form 7-400 (2/67), Audio Tape Label.	
				<u>ITEM</u>	<u>COPIES</u>
				<u>CIRCUIT NO./NAME</u>	<u>VOR</u>
				<u>RECORD FROM/TO</u>	<u>SPEED</u>
				LC 39 RF OIS Channel 121	Start of count to termination 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 151	Start of count to termination 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 161	Start of count to termination 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 171	Start of count to termination 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 181	Start of count to termination 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 211	Start of count to termination. 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 212	Start of count to termination 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 214	Start of count to termination 3-3/4 IPS Yes Original
				LC 39 RF OIS Channel 222	Start of count to termination 3-3/4 IPS Yes Original
				(reference Item 32 QJ, SD page 127.3) (reference Item 1 QJ, SD page 127).	
				DISPOSITION: Recording(s) will be held for pickup as needed by Information Systems (PS-1.) Recording(s) not called for within thirty (30) days may be erased and tapes returned to stock.	
2 QJ			HL 2015.1	(reference Item 3 QJ, SD page 127)	

* COMMUNICATIONS SUPPORT - INTERCOMMUNICATIONS SYSTEMS - DRAWING

6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002	2. DATE September 22, 1967		4. PAGE NO. 2040
8. ITEM NO.		9. TEST CODE 501 & Up	10. SD/RD ITEM NO. 2 JG	3. REVISION NO. 0	5. REPLACES PAGE(S)
11. SD RD PAGE NO. RD 2040.10		DATED:			

DISCUSSION



CIF ROOM 307

COMMUNICATIONS SUPPORT - OIS				2. DATE September 22, 1967		4. PAGE NO. 2040.1
				3. REVISION NO. 0		5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD--FLIGHT READINESS TEST				7. NO. 40002		DATED:
8.	9.	10.	11.	12.		
ITEM NO.	TEST CODE	SD/RD ITEM NO.	SD/RD PAGE NO.	DISCUSSION		

501 & Up	3 JG 3 PG 1 KG - 10 KG 2 KG	RD 2040.11 RD 2040.5 RD 2040 RD 2050.2	<p>The Complex 39 RF OIS systems will be committed as installed in the indicated areas, which shall be inter-connected via a mission amplifier in the CCR. Such commitment covers only the end instrument(s), active or monitor headset jack(s), or any other type RF OIS equipment installed, and does not ensure complete channel selection capability or end instrument control in each area, room, level, console or racks indicated. Channelization will be in accordance with DLO assignment chart on page 2020 of this SD.</p> <table><tr><th>LCC</th><th>MSOB</th><th>VAB</th><th>ML</th><th>PAD</th><th>VEHICLE</th></tr><tr><td>Room 2P10</td><td>Rooms 3412</td><td>Rooms 3E17</td><td>Rooms 2A</td><td>PTCR Room 210</td><td>TU (4 Portabl</td></tr><tr><td>2P10A(TCE)</td><td>3416</td><td>15E14</td><td>7A</td><td>Room 205</td><td>units)</td></tr><tr><td>2R9</td><td>3430</td><td>15E21</td><td>8A</td><td>AZ alignment Bldg.</td><td></td></tr><tr><td>3P15</td><td>3436</td><td>16E15</td><td>10A</td><td></td><td></td></tr><tr><td>3P17</td><td>3446</td><td>22E19</td><td>13A</td><td></td><td></td></tr><tr><td>2P25</td><td>3463</td><td>25E12</td><td>15A</td><td></td><td></td></tr><tr><td></td><td>4432</td><td>25E14</td><td>1B</td><td></td><td></td></tr><tr><td>F/R Area A, Row B</td><td>4440</td><td>25E15A</td><td>7B</td><td></td><td>Platform 2 at IU Level</td></tr><tr><td>Area A, Row C</td><td>4452</td><td>26E7</td><td>15B</td><td></td><td></td></tr><tr><td>Area A, Row D</td><td>2456</td><td>27E6</td><td>11AB</td><td></td><td></td></tr><tr><td>Area B, Row A</td><td></td><td>27E7</td><td></td><td></td><td></td></tr><tr><td>Area B, Row B</td><td></td><td>27E15</td><td></td><td></td><td></td></tr><tr><td>Area B, Row C</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area B, Row D</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area B, Row E</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area C, Row B</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area C, Row C</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area C, Row D</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area C, Row E</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area C, Row F</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area C, Row G</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Area C, Row H</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>(reference Item 2 QJ, SD page 126)</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>Deleted by requester.</td><td></td><td></td><td></td><td></td></tr></table>	LCC	MSOB	VAB	ML	PAD	VEHICLE	Room 2P10	Rooms 3412	Rooms 3E17	Rooms 2A	PTCR Room 210	TU (4 Portabl	2P10A(TCE)	3416	15E14	7A	Room 205	units)	2R9	3430	15E21	8A	AZ alignment Bldg.		3P15	3436	16E15	10A			3P17	3446	22E19	13A			2P25	3463	25E12	15A				4432	25E14	1B			F/R Area A, Row B	4440	25E15A	7B		Platform 2 at IU Level	Area A, Row C	4452	26E7	15B			Area A, Row D	2456	27E6	11AB			Area B, Row A		27E7				Area B, Row B		27E15				Area B, Row C						Area B, Row D						Area B, Row E						Area C, Row B						Area C, Row C						Area C, Row D						Area C, Row E						Area C, Row F						Area C, Row G						Area C, Row H							(reference Item 2 QJ, SD page 126)						Deleted by requester.									
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2 QJ	11 KG	RD 2040																																																																																																																																																												

COMMUNICATIONS SUPPORT - OIS TC Unit Auxiliary Line Assignments AA-4				2. DATE September 22, 1967	4. PAGE NO. 2040.3
				3. REVISION NO. 0	5. REPLACES PAGE (S)
6. TITLE APOLLO/SATURN V SD--FLIGHT READINESS TEST		7. NO. 40002		DATED:	
8.	9. ITEM NO.	10. TEST CODE	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME	
	2 QJ 50L & Up			* KSC CKT.	
				STATION OR LOCATION	
				LCC-39 FR, Console AA-4	
				Director LVO	
				RD 2020.2	
				RD 2050.18.4	
				RD 2050.18.5	
				RD 2050.18.6	
				RD 2050.18.3	
				RD 2050.19	
				3 HD	
				14 JG	
				15 JG	
				16 JG	
				13 JG	
				2 HD	
				21CC062	
				21CM299	
				4W Buss to AA-3	
				21CM272	
				151 IU OPS Engr.	
				21CM273	
				161 S-IVB OPS Engr.	
				21CM274	
				171 S-II OPS Engr.	
				21CM275	
				181 S-IC OPS Engr.	
				21CB 095	
				LVO Staff	
				121 LV Test Cond.	
				21CB060	
				DLO Staff	
				21CM264	
				111 Test Super.	
				21CM263	
				211 C.F. SC Test Cond.	
				2BPM124	
				C.F. LIEF Operator	
				2BPM116	
				LC/LVO Conf.	
				PT-PT AB-2	
				PT-PT AA-3	

Numbers 1-18 indicate audio button terminations.

COMMUNICATIONS SUPPORT - OIS TC Unit Auxiliary Line Assignment - AA5				2. DATE September 22, 1967	4. PAGE NO. 2040.4
				3. REVISION NO.	5. REPLACES PAGE (S)
6. TITLE AFCLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME	
3 QJ	501 & Up	1 HD-2 HD 5 HD 10 HD 4 HD 6 HD 3 HD	RD 2040.9.1 RD 2040.9.2 RD 2040.9.3 RD 2050.20 RD 2050.21 RD 2020.2	* 21CM263 - Channel 211 21CM265 - Channel 121 21CM264 - Channel 111 = Abort Voice Loop 21CBO60 - DLO Staff 21CBO95 - LVO Staff 21CBO35 - Goss Conference 21CC062 - Flight Director 21PAB005 - TV Audio - ISR Net UHF - ISR Hardline 21CM-233 - Mission Director 21BM 261 - LD/WX Conference 21BM 260 - LD/PAO Conference 21BM 205 - Point to Point AC 15 21BM118 - LD/SCO Conference 21BM116 - LD/LVO Conference 21BM263 - LD/MSF Conference	
				STATION OR LOCATION LCC 39 FR, Console AA5 Deputy Launch Director (reference Item 15 QJ, SD page 127.1) (reference Item 9 QJ, SD page 127). (reference Item 11 QJ, SD page 127.1) (reference Item 12 QJ, SD page 127.1) (reference Item 38 QJ, SD page 127.3)	
				*Numbers 1-18 indicate audio button terminations.	

COMMUNICATIONS SUPPORT - OIS TC Unit Auxiliary Line Assignments - AA6

2. DATE
September 22, 1967

4. PAGE NO.

2040 .5

5. REPLACES PAGE (S)

3. REVISION NO.

0

7. NO.

40002

DATED:

5. TITLE
APOLLO/SATURN V SD-FLIGHT READINESS TEST

ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD RD PAGE NO.
----------	--------------	--------------------	--------------------

NET NUMBER
AND
FUNCTION OR NAME

LCC 39 FR, Console AA6
Launch Director

(reference Item 3 QJ, SD page 127)
(reference Item 9 QJ, SD page 127)
(reference Item 11 QJ, SD page 127.1)
(reference Item 12 QJ, SD page 127.1)
(reference Item 15 QJ, SD page 127.1)
(reference Item 7 QJ, SD page 127)
(reference Item 38 QJ, SD page 127.3)

501
&
Up

1 HD - 2 HD
6 HD
11 HD
1 HD
6 HD
3 HD
5 HD

RD 2040.9.1
RD 2040.9.2
RD 2040.9.3
RD 2050.19
RD 2050.21
RD 2020.2
RD 2050.20

21CM285 - Channel 112
21CM263 - Channel 211
21CM265 - Channel 121
21CM264 - Channel 111
- Abort Voice Loop
21CB060 - LVO Staff
21CB095 - LVO Staff
2PAB035 - Goss Conf. (mon.)
21CC062 - Flight Director
2PAB005 - TV Audio Comm.
-LSR WHF
-LSR Hardline
21CM233 - Mission Director
2BPM261 - LD/WX Conference
2BPM118 - LD/SCO Conference
2BPM116 - LD/LVO Conference
2BPM263 - LD/MSF Conference
2BPM260 - LD/PAOC Conference

*Numbers 1-18 indicate audio button terminations.

COMMUNICATIONS SUPPORT - OIS TC Unit Auxiliary Line Assignments - AA7				2. DATE September 22, 1967		4. PAGE NO. 2040.6	
				3. REVISION NO. 0		5. REPLACES PAGE (S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME			
5 QJ	501 & Up	1 HD - 2 HD 7 HD 12 HD 10 HD 3 HD	RD 2040.9.1 RD 2040.9.2 RD 2040.9.3 RD 2050.23 RD 2020.2	STATION OR LOCATION LCC 39 FR, Console AA7 KSC Center Director (reference Item 3 QJ, SD page 127) (reference Item 9 QJ, SD page 127) (reference Item 11 QJ, SD page 127.1) (reference Item 12 QJ, SD page 127.1) (reference Item 15 QJ, SD page 127.1) (reference Item 38 QJ, SD page 127.3)			
				* A C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18			
				21CM285 - Channel 112 21CM263 - Channel 211 21CM265 - Channel 121 21CM264 - Channel 111			
				21CM233 - Mission Director 2PAB035 - Goss Conference 2PAB005 - TV Audio 21CBO60 - DLO Staff 21CBO95 - LVO Staff 2BPM265 - Point to Point AA3 2BPM118 - LD/SCO Conference 2BPM116 - LD/LVO Conference 2BPM260 - LD/PAO Conference 2BPM263 - LD/MSF Conference			

*Numbers 1-18 indicate audio button terminations.

COMMUNICATIONS SUPPORT - OIS TC Unit Auxiliary Line Assignments - AA8

○

40002

15-ILLO/SATURN V SD-FLIGHT READINESS TEST

NET NUMBER
AND
FUNCTION OR NAME

STATION OR LOCATION

A. C.

LCC 39 FR, Console AAG

Director Spacecraft Operations

(reference Item 7 QJ, SD page 127)

*Numbers 1-18 indicate audio button terminations.

EX

ITEM NO.	EX.
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9. TEST CODE

10.

SD/RD
ITEM NO.

11.

SD RD
PAGE NO

Up & 501

3 HD 3 HD 17 KG

RD 2020.2
RD 2050.20
RD 2050.8

21C264	-	Channel 111
21C265	-	Channel 121
21C263	-	Channel 211
21C201	-	Channel 212
21C056	-	Channel 214
21C058	-	Channel 215
21C202	-	Channel 221
21C210	-	Channel 222
21C205	-	Channel 223
21C207	-	Channel 224
21C057	-	Channel 227
21C203	-	Channel 228
21C201	-	Channel 231
21C060	-	Channel 232
21C060	-	DIO Staff
2BIM84	-	SC Loop
2BIM18	-	LD/SCO Conf
2BIM83	-	STC Loop

COMMUNICATIONS SUPPORT - OLS TC Unit Auxiliary Line Assignments AA-10				2. DATE September 22, 1967	4. PAGE NO. 2040.8
				3. REVISION NO. 0	5. REPLACES PAGE (S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME	
7 QJ	501 & Up	3 HD	RD 2020.2		
LCC 39 FR, Console AA-10 (reference Item 38 QJ, SD page 127.3)				STATION OR LOCATION	
				A C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	
* KSC CKT. RF OLS CHANNEL TITLE				2PAC115 GP58367 - PAO Que	
				2PAC117 GP58368 - PAO Coord.	
				PAO Recovery (Mon)	
				2ICB060 BLO Staff (Mon)	
				2ICB095 LVO Staff (Mon)	
				Mission Com Fld TX	
				Mission Com Sec TX	
				PAO Release RX	
				Goss Conf (Mon)	
				2ICCO62 Flt Director (Mon)	
				2BPM260 LD/PAO Conf.	

*Numbers 1-18 indicate audio button terminations.

8.	9.	10.	11.
ITEM NO.	TEST CODE	SD, RD ITEM NO.	SD, RD PAGE NO.
9 QJ	501	1 HD - 2 HD	RD 2040.9.1
	&	8 HD	RD 2040.9.2
	Op	13 HD	RD 2040.9.3
		6 HD	RD 2050.21
		7 HD	RD 2050.22
		4 HD	RD 2020.3

NET NUMBER
AND
FUNCTION OR NAME

STATION OR LOCATION

*ALL CALL BUTTON

2ICM285 - Channel 112	X	X	X
2ICM 142 - Channel 261	X	X	X
- Channel 238			
2ICM203 - Channel 228	X	X	X
2ICM272 - Channel 151	X	X	X
2ICM274 - Channel 171	X	X	X
2ICM273 - Channel 161	X	X	X
2ICM275 - Channel 181	X	X	X
- LSB UHF Net			
- LSB Hardline			
21CG062 - Flight Director	X	X	X
21CM263 - Channel 211	X	X	X
21CM265 - Channel 121	X	X	X
21CM 264 - Channel 111	X	X	X
2BPM261 - LD/WX Conference	X	X	X
2BPM262 - Umb. TWR Elevator	X	X	X
2BPM115 - TS/USB Conference	X	X	X
2BPM106 - TS/SBO Conference	X	X	X

[illegible]

COMMUNICATIONS SUPPORT - OIS TC Units Auxiliary Line Assignments AC-2		2. DATE September 22, 1967	4. PAGE NO. 204012
		3. REVISION NO. 0	5. REPLACES PAGE (S)

6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO.	DATED:									
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME										
11 QJ & Up	501 & Up	14 JG 15 JG	RD 2050.18.4 RD 2050.18.5	KSC CKT. RF OIS CHANNEL TITLE										
				* C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18										
				STATION OR LOCATION										
				LCC 39 FR, Console AC-2										
				S-IC OPS Engineer										
				(reference Item 10 QJ, SD page 127.1)										

COMMUNICATIONS SUPPORT - OIS TC Auxiliary Button Assignments - AD13				2. DATE September 22, 1967	4. PAGE NO. 2040.14
				3. REVISION NO. 0	5. REPLACES PAGE (S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	DATED:	
13 QJ	50L & Up	1 13	RD 2040.4	2BPM252 - CCC Support Cont. X X X X X X 2BPM254 - CCC Inst. Sup. Cont. X X X X X X 2BPM255 - Hq. Bldg.-CTSC 2BPM256 - CDSC-CSC 2BPM257 - Pad Safety AD 25 2BPM258 - Security AD 26	
NET NUMBER AND FUNCTION OR NAME				* A C	
				LCC 39 FR, Console AD 13 Test Support Controller (reference Item 8 QJ, SD page 127)	
Numbers 1-18 indicate button terminations.				21CM264 - Channel 111 X X X X X X	
				21CM088 - Channel 115 X X X X X X	
				21CM265 - Channel 121 X X X X X X	
				21CM263 - Channel 211 X X X X X X	
				21CM241 - Channel 251 X X X X X X	
				21CM152 - Channel 261 X X X X X X	

COMMUNICATIONS SUPPORT - OIS				2. DATE September 22, 1967		4. PAGE NO. 2040 .15	
				3. REVISION NO. 0		5. REPLACES PAGE (S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME			
14 QJ	501 & Up	12 JG	RD 2050.18.2	STATION OR LOCATION			
				* A C			
				LC 39 FR. Console AA-2 X			
				AA-4 7			
				AA-5 6			
				AA-6 7			
				AA-7 12			
				AB-1 X			
				AB-2 17			
				AB-3 X			
				AB-7 10			
				AC-3 X			
				AC-5 X			
				AC-7 X			
				AC-9 X			
				AD-2 X			
				AD-3 X			
				AD-4 X			
				AD-5 X			
				(reference Item 38 QJ, SD page 127.3)			
				*Numbers indicate audio button terminations			

COMMUNICATIONS SUPPORT - OIS (CIF, Room 307)			2. DATE September 22, 1967		4. PAGE NO. 2040.16	
			3. REVISION NO. 0		5. REPLACES PAGE (S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST			7. NO. 40002		DATED:	

8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME	STATION OR LOCATION	A	C	21CM264 - Channel 111	21CM284 - Channel 113	21CM200 - Channel 114	21CM080 - Channel 116	21CM265 - Channel 121	21CM262 - Channel 123	21CM286 - Channel 124	21CM276 - Channel 125	21CM277 - Channel 126	21CM287 - Channel 132	21CM288 - Channel 133	21CM289 - Channel 134	21CM290 - Channel 135	21CM279 - Channel 136	21CM291 - Channel 142	21CM292 - Channel 143	21CM280 - Channel 145	21CM293 - Channel 146	21CM294 - Channel 147	21CM272 - Channel 151	21CM295 - Channel 152	21CM066 - Channel 153	21CM296 - Channel 154	21CM278 - Channel 155	21CM281 - Channel 157
1 QJ	501 & Up	1 JG 3 JG	RD 2040.8 RD 2040.11 RD 2040.12	CPX 39 - RF OIS CHANNELS	Area D, Consoles D1, D2, D5 (Nav.) Area D, Consoles D8, D8, D11 (Network) Area D, Consoles D14, D14, D17 (Prop) Area C, Consoles C7, C10 Area C, Consoles C1, C4 Area B, Consoles B2, B5 Area B, Consoles B8, B11 Sys. Engr. Table No. 1, G1, 2, 3, 4, 5 Sys. Engr. Table No. 2, H1, 2, 3, 4, 5 Abort Racks B12, B14 LIEF Console F7 (A Unit) Syst. Engr. Table No. 3, J1, 2, 3, 4, 5 Sys. Engr. Table No. 4, K1, 2, 3, 4, 5 LIEF Console F5 (17 Unit) LIEF Console F7 (17 Unit)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

(reference item 14 QJ SD page 127.1)

1. CLASSIFICATION (IF ANY) _____

GROUND COMMUNICATIONS -INTERCOMMUNICATIONS SYSTEMS SUMMARY				2. DATE September 22, 1967		4. PAGE NO. 2040.18	
				3. REVISION NO. 0		5. REPLACES PAGE (S)	
5. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
9. ITEM NO.	10. TEST CODE	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME				
501 & Up	1 KG - 13 KG RD 2040		STATION OR LOCATION				
			LC-39: Firing Room				
			ML and Pad (SC Levels)				
			MSS (SC Levels)				
			MSOB: ACE Control Rooms				
			ACE Computer Rooms				
			2456 ICE				
			3412 RF Lab				
			3416 CURFCOE				
			3436 ACE Patching				
			Roof Antenna Area				
			3460 GAEC Engineering				
			USB, MILA				
			SRC @ RCC, CKAFS				
			RF OIS System				
			CSTC 211				
			CSTC 212				
			CSTC 213				
			CSTC 214				
			CSTC 222				
			CSTC 228				
			CSTC 232				
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COMMUNICATIONS SUPPORT - POINT TO POINT PHONES					2. DATE September 22, 1967		4. PAGE NO. 2051	
APOLLO/SATURN V SD - FLIGHT READINESS TEST					3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE					7. NO. 40002		DATED:	
8.	9.	10.	11.	12.	DISCUSSION			
ITEM NO.	TEST CODE	SD/RD ITEM NO.	SD/RD PAGE NO.	CIRCUIT #	FROM	TO		
1 CJ	501 & Up	8 PG	RD 2050.3	2BPM167	Guard Gate, CIF Antenna Site Rd.	CIF Antenna Site		
2 CJ		17 PG	RD 2050.13	2BPM241 2BPM242	LCC 39, FR Console AD11	CIF Room 291, Mod 1 CIF Room 291, Mod 2		
3 CJ		20 PG	RD 2050.13	2BPM066	CIF, Room 205	CIF Room 291, Mod 1		
4 CJ		23 PG	RD 2050.14	2BPM182	TEL IV Coordination	CIF Room 291, Mod 1		
5 CJ		24 PG	RD 2050.14	2BPM119 2BPM134	USB Site	CIF Room 291, Mod 1 CIF Room 297, Mod 3 & 4		
6 CJ		25 PG	RD 2050.14	2BPM065	CIF, Room 177, Alds	CIF Room 297, Mod 3 & 4		
7 CJ		26 PG	RD 2050.15	2BPM014	CIF, Room 177, Lief	CIF Room 297, Mod 3 & 4		
8 CJ		27 PG	RD 2050.15	2BPM017 2BPM029 2BPM036	CIF, Room 307	CIF Room 291, Mod 1 CIF Room 291, Mod 2 CIF Room 297, Mod 3		
9 CJ		28 PG	RD 2050.15	2BPM076	CIF, Room 297, Mod 3 & 4	CIF Room 291, Mod 1		
10 CJ		30 PG	RD 2050.15	2BPM052	CIF, Room 205	CIF Room 291, Comm.		

COMMUNICATIONS SUPPORT - POINT TO POINT PHONES				2. DATE September 22, 1967		4. PAGE NO. 2051.1	
5. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				3. REVISION NO. 0		5. REPLACES PAGE(S)	
				7. NO. 40002		DATED:	
8.	9.	10.	11.	12.	DISCUSSION		
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.				
11 QJ	501 & UP	18 - 19 PG 8 JG	RD 2050.13 RD 2050.18		<u>FROM</u> LCC 39 Room 2P10	<u>TO</u> CIF, Room 291	
12 QJ		11 PG 17 PG	RD 2050.6 RD 2050.13		LCC 39 FR, Console AD11		1. CIF, Room 173 2. CIF, Room 177 3. CIF, Room 291, Mod 1, Rack 1 4. CIF, Room 291, Mod 2, Rack 1 5. CIF, Room 297, Console E-34 6. CIF, Room 205 7. CIF, Room 234 W/Ext.Room 236 8. CIF, Room 307 9. CIF, Room 327 10. CIF Antenna Site 11. ICC, Room 2P20 12. Complex 34 13. Complex 37 14. CIF Room 205 (635 # 2)
13 QJ		3 HD	PD 2020.2		OMR		LC-39 Console AA-5 button 18 LC-39 Console AA-6 button 17 LC-39 Console AA-7 button 17
14 QJ		4 HD	PD 2020.3		SRO		LC-39 Console AB-4 button 18 LC-39 Console AB-7 button 18
15 QJ		4 HD	PD 2020.3		USB		LC-39 Console AB-4 button 17 LC-39 Console AB-7 button 17
16 QJ		4 HD	PD 2020.3		Umbilical Tower Elevator		LC-39 Console AB-4 button 16 LC-39 Console AB-7 button 16

2. DATE September 22, 1967				4. PAGE NO. 2051.2	
3. REVISION NO. 0				5. REPLACES PAGE(S)	
6. TITLE COMMUNICATIONS SUPPORT - POINT TO POINT PHONES				7. NO. 40002	
8. TITLE APCLIC/SATURN V SD - FLIGHT READINESS TEST					
9. TEST CODE		10. SD/RD ITEM NO.		11. SD/RD PAGE NO.	
12. DISCUSSION		CIRCUIT #			
FROM		TO			
Weather Office		LC-39 Console AA-5 button 13			
CIF 235 Comp.		LC-39 Console AA-6 button 14			
CIF Antenna Site		LC-39 Console AB-4 button 15			
		LC-39 Console AB-7 button 15			
		CIF Room 291			
		CIF Room 291, Mod 1 and 2			
		2BPM044			
		2BPM053			
		2BPM055			

COMMUNICATIONS SUPPORT - TELEPHONE - OTHER				2. DATE September 22, 1967		4. PAGE NO. 2052	
				3. REVISION NO. 0		5. REPLACES PAGE (S)	
5. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:	
8.	9.	10.	11.	NET NUMBER AND FUNCTION OR NAME			
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.				
1 QJ	50L & Up	11 JG T45 T46	RD 2050.18.1 3402.4.5				
				STATION OR LOCATION	A	C	
				GP58783	X		21CM048 MSR NAV
				GP58784		X	21CM047 MSR PROP
				GP58785		X	21CM049 MSR Network
				*GP58700	X		
				*GP58701	X		
				*GP58702		X	
				MSFC VIA GP3049		X	2PAC183
				MSFC VIA any available 6081 circuit		X	2PAC184
				GP63244		X	2PAC143
2 QJ		1 JG - 3 JG	RD 2050.16				
				*Conference at HOSC to MCC			

6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO.	40002	DATED:	
8. ITEM NO.	9. TEST CODE	10. SD-RD ITEM NO.	11. SD-RD PAGE NO.	TITLE			
5 QJ	501 & Up	T21 PEGK T23 PEGK thru T32 PEGKD T35 PEGKD T37 PEGK T38 PEGKD T38.1.1 PEGK	PSRD 3402.4.4	NET NUMBER AND FUNCTION OR NAME			
				STATION OR LOCATION			
				CDSC Remote to leased line (304/758)	A	C	
				LCC 39 RF OLS Applicable Net			
				LCC 39 OPS Mgmt. Room			
				LCC 39 FR, Console AA4			
				LCC 39 FR, Console AA5			
				LCC 39 FR, Console AA7			
				LCC 39 FR, Console AA8			
				LCC 39 FR, Console AA9			
				LCC 39 FR, Console AA10			
				LCC 39 FR, Console AB4			
				LCC 39 FR, Console AB10			
				LCC 39 FR, Console ACL5			
				LCC 39 FR, Console ACL8			
				LCC 39 FR, Console AD14			
				USB Comm. Tech. Console			
				USB Launch Support Console			
				CKAFS BOSU			
				CKAFS SRO			
				CKAFS RSO			
				CIF			
				MAOB Room 3430/3436, Console 10A1			
				LCC 39 FR, Console AB7			
				LM Data Center, NSOB Room 3460			

KSC FORM 14-147 11-66

COMMUNICATIONS SUPPORT - TELEPHONES - OTHER				2. DATE September 22, 1967		4. PAGE NO. 2052.4
				3. REVISION NO. 0		5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED:
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION		
10 QJ	501 & Up	1 PG	RD 2052	Administrative telephone will be provided. Technical contact, Wendell Roberts, 867-4064.		

COMMUNICATIONS SUPPORT - TELETYPE				2. DATE September 22, 1967		4. PAGE NO. 2053
				3. REVISION NO. 0		5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002	DATED:	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12.	DISCUSSION	
1 QJ	501 & Up	4 JG - 7 JG	RD 2050.17		The NASA Communications Center in the VAB, Room 2M6 will be operated on a normal scheduled basis for the transmission and reception of Teletype and Data-Fax messages. Circuits NSC 7310 and 7315, plus the teletype to the KSC Communications Center will be required.	

COMMUNICATIONS SUPPORT - TELEVISION CAMERAS AND MONITORS				2. DATE September 22, 1967	4. PAGE NO. 2055
				3. REVISION NO. 0	5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION	
1 QJ	50L & Up			<p>The Complex 39 OTV System will be committed as indicated on SD pages 2055.1 through 2055.6 based on the following reference drawings, equipment capabilities and constraints:</p> <ol style="list-style-type: none">1. All monitors, unless otherwise noted are connected to a switcher which has inputs from all cameras except number 37, 39, 41.2. Camera and monitor numbers and locations are as shown on NASA drawings 67 EDV 030 and 66 KMT 46310, on file at IC 39 Communications Engineering Office.3. Camera programming to local monitors may be requested by any customer via the RF OIS channel assigned for OTV Engineer (113), however, requests for Pan, Tilt or Zoom will only be honored from the respective customer Test Conductor, or his appointed designee.4. All committed camera coverage is predicated on the assumption that adequate lighting will be available as required.5. All committed camera coverage is made as an "operational capability" and is not committed for "pre-count" or "during countdown" times. Specific time periods must be stated by the requester in hours and/or minutes referenced to T-0 time for each requirement before specific commitments can be made.	

COMMUNICATIONS SUPPORT - TELEVISION CAMERAS AND MONITORS				2. DATE September 22, 1967		4. PAGE NO. 2055.2													
				3. REVISION NO. 0		5. REPLACES PAGE S													
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED													
8.	9.	10.	11.	12.															
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.	DISCUSSION															
1 QJ	501	7 KG	RD 2055.0.1	*Firing Room SC TV Monitors to be programmed initially as follows: <table><tr><td><u>Monitor Location</u></td><td><u>Camera View</u></td></tr><tr><td>Console AB-10</td><td>Items 1 KG and 4 KG</td></tr><tr><td>Console AC-11</td><td>Items 2 KG and 6 KG</td></tr><tr><td>Console AC-16</td><td>Items 1 KG and 3 KG</td></tr></table>	<u>Monitor Location</u>	<u>Camera View</u>	Console AB-10	Items 1 KG and 4 KG	Console AC-11	Items 2 KG and 6 KG	Console AC-16	Items 1 KG and 3 KG							
<u>Monitor Location</u>	<u>Camera View</u>																		
Console AB-10	Items 1 KG and 4 KG																		
Console AC-11	Items 2 KG and 6 KG																		
Console AC-16	Items 1 KG and 3 KG																		
2 QJ		8 KG	RD 2055.0.1	*Control Room Monitors (1-11) to be initially programmed as follows: <table><tr><td><u>Monitor</u></td><td><u>Camera View</u></td></tr><tr><td>1, 4 and 7</td><td>Item 1 KG</td></tr><tr><td>10</td><td>Item 2 KG</td></tr><tr><td>2, 5 and 8</td><td>Item 3 KG</td></tr><tr><td>11</td><td>Item 4 KG</td></tr><tr><td>3, 6, and 9</td><td>Item 5 KG</td></tr></table> *The SC Test Conductor must have the prerogative of reconfiguring the above TV monitor during test preparation.	<u>Monitor</u>	<u>Camera View</u>	1, 4 and 7	Item 1 KG	10	Item 2 KG	2, 5 and 8	Item 3 KG	11	Item 4 KG	3, 6, and 9	Item 5 KG			
<u>Monitor</u>	<u>Camera View</u>																		
1, 4 and 7	Item 1 KG																		
10	Item 2 KG																		
2, 5 and 8	Item 3 KG																		
11	Item 4 KG																		
3, 6, and 9	Item 5 KG																		

COMMUNICATIONS SUPPORT - CTV CIRCUITS A2A				2. DATE September 23, 1977	4. PAGE NO. 2056
				3. REVISION NO. 0	5. REPLACES PAGE S
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002		DATED:	
8.	9.	10.	11.	12.	
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.	DISCUSSION	
1 QJ	501 & Up	1 HD-5 HD 6 HD	RD 2015.1 RD 2020.5	Abort Advisory System - Wideband CTV (reference Item 3 QJ, SD page 127).	

COMMUNICATIONS SUPPORT - DATA CIRCUITS (A2A)

2. DATE September 22, 1967		4. PAGE NO. 2057	
3. REVISION NO. 0		5. REPLACES PAGE	
7. NO. 40002		DATED:	

APOLLO/SATURN V SD-FLIGHT READINESS TEST

8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	CIRCUIT NO.	FROM	TO	USE
1 QJ	501	1 KG	RD 2050.2		1 TVM 093	LC 39 Pad A, ML 300' TD 9060	MSOB Rm 3436, Unit 245	CSM DTCS Ext. (ACE)
2 QJ	& Up	2 KG	RD 2050.2		1 TVM 094	LC 39 Pad A, ML 300' TD 9060	MSOB Rm 3436, Unit 245	CSM DTCS C/C DL (ACE)
3 QJ		3 KG	RD 2050.2		1 TVM 096	LC 39 Pad A, ML 300' TD 9060	MSOB Rm 3436, Unit 245	CSM Interleaver #1 DL
4 QJ		4 KG	RD 2050.2		1 TVM 097	LC 39 Pad A, ML 300' TD 9060	MSOB Rm 3436, Unit 245	CSM Interleaver #2 DL
5 QJ		5 KG	RD 2050.2		1 TVM 098	LC 39 Pad A, ML 300' TD 9060	MSOB Rm 3436, Unit 245	CSM Interleaver #3 DL
6 QJ		6 KG	RD 2050.2		1 TVM 090	MSOB Rm 3436, Unit 245	LC 39 Pad A, ML 300' TD 9060	CSM DTCS Ext. UL (ACE)
7 QJ		7 KG	RD 2050.2		1 TVM 091	MSOB Rm 3436, Unit 245	LC 39 Pad A, ML 300' TD 9060	CSM DTCS C/C UL (ACE)
8 QJ		11 KG	RD 2050.7		1 TVM 099	LC 39, ML CM M	MSOB Rm 3436, Unit 245	CM/FM/FM
9 QJ		12 KG	RD 2050.7		1 TVM 100	LC 39, ML SM	MSOB Rm 3436, Unit 245	SM/FM/FM
10 QJ		13 KG	RD 2050.7		1 TVM 081	LC 39, Firing Room #1	MSOB Rm 3436, Unit 245	BH/AN Display DL
11 QJ		14 KG	RD 2050.7		1 TVM 080	MSOB Rm 3436, Unit 245	LC 39 Firing Room #1	BH/AN Display UL
12 QJ		15 KG	RD 2050.8		1 TVM 082	LC 39 Firing Room #1	MSOB Rm 3436, Unit 245	SC/LV CICA UL
13 QJ		16 KG	RD 2050.8		1 TVM 083	MSOB 3436, Unit 245	LC 39 Firing Room #1	SC/LV CICA UL
14 QJ		17 KG	RD 2050.8		See SD page 2040			
15 QJ		18 KG	RD 2050.8		See SD page			
16 QJ		19 KG	RD 2050.8		1 TVM 103	LC 39 MSS (TD 9700)	MSOB Rm 3436, Unit 245	Interleaver DL (204.8KBS)
17 QJ		20 KG	RD 2050.8		1 TVM 095	LC 39 MSS (TD 9700)	MSOB Rm 3436, Unit 245	GSE DTCS DL
18 QJ		21 KG	RD 2050.8		1 TVM 092	MSOB Rm 3436, Unit 245	LC 39 MSS (TD 9700)	GSE DTCS DL

COMMUNICATIONS SUPPORT - DATA CIRCUITS #2A					2. DATE September 22, 1967	4. PAGE NO. 2057.1
					3. REVISION NO. 0	5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST			7. NO. 40002	DATED		
8.	9.	10.	11.	12.	DISCUSSION	
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.	CIRCUIT NO.	FROM	TO
19 QJ	501 & Up	14 PG	RD 2050.12	1 TWM 186 1 TWM 187 1 TWM 188 1 TWM 001 1 TWM 002	CIF Room 327 CIF Room 327 CIF Room 327 CIF Room 327 CIF Room 327	LCC 39, Room 4P11, Rack 12 LCC 39, Room 4P11, Rack 12 LCC 39, Room 4P11, Rack 12 LCC 39, Room 4P11, Rack 12 LCC 39, Room 4P11, Rack 12
20 QJ		5 PG 2 PG	RD 2040.7 RD 2050	1 TWM 180-183 1 TWM 005 1 TWM 006	KSC TEL. IV	CIF, Room 291, Rack 28 L/V RF Links
21 QJ		5 PG 3 PG	RD 2040.7 RD 2050 PSRD	1 TWM 168 1 TWM 224 1 TWM 225 1 TWM 226	USB Site USB Site USB Site CIF Room 291	CIF, Room 291, Rack 28 CIF, Room 291, Rack 28 CIF, Room 291, Rack 28 USB Site
22 QJ		5 PG 1 PG	RD 2040.7 RD 2050	1 TWM 052 1 DAM 053	MSOB Room 3436	CIF, Room 291, Rack 28 S/C Telemetry
23 QJ		4 PG	RD 2050 PSRD	1 TWM 002 1 TWM 003	KSC AMS	CIF, Room 291 PCM TM #1
24 QJ		5 PG 7 PG	RD 2040.7 RD 2050.1	1 TWM 196-201	LCC 39 Room 2P12	CIF, Room 291 Closed Loop TLM (Multi Plex)
25 QJ		6 PG 5 PG	RD 2050.1 RD 2040.7	1 TWM 202	CIF, Room 291	LC 39, Room 2P12 L/V DDAS Return

2. DATE

4. PAGE NO.

September 22, 1967

2058

3. REVISION NO.

5. REPLACES PAGE S

0

DATED:

* COMMUNICATIONS SUPPORT - WIRE PAIRS

6. TITLE

APOLLO SATURN V SD - FLIGHT READINESS TEST

7. NO

40002

8.

11.

12.

ITEM NO.

9.

TEST

CODE

10.

SD RD

ITEM NO.

11.

SD RD

PAGE NO.

12.

DISCUSSION

KSC CIRCUIT #FROMTOUSE

1 QJ

501

& Up

10 PG

9 PG

RD 2050.5

RD 2050.4

2FAC 008

ETR, BRRS

CIF, Ant. Site

Reference Item 3 QJ, SD page 126.

Audio Range Countdown

2 QJ

3 KG

RD 2050.2

2DAM 260-261

IC 39

MSOB Room 3436

G&N PIPA Circuits

3 QJ

12 PG

RD 2050.9

1DAM 083-094

CIF Room 291

CIF Ant. Site

Telemetry Data

4 QJ

13 PG

RD 2050.10

RD 2050.11

2DAM 231-255

CIF Room 291

CIF Ant. Site

Telemetry Data

5 QJ

15 PG

RD 2050.12

2DAM 541-620

CIF Room 327

LCC-39 Room 4P11

(80 Pair)

6 QJ

5 PG

1 PG

RD 2040.7

RD 2050.0

1DAY 053-055

MSCE

CIF, Room 291, Rack 28

S/C Telemetry

7 QJ

5 PG

RD 2040.7

2DAB 138

CIF, Room 291, Rack 28

8

Deleted.

9 QJ

9 KG

RD 2050.7

2DAM 264-275

MSOB, Rm. 3412

IC 39 Service Structure

Level 8A

UDL Circuits

10 QJ

1 JG -

3 JG

RD 2050.16

2PAM183

CIF Rm. 307, MSFC

Table 1

W/Est. Tbl. 3

CIF Rm. 307, MSFC

Table 2

W/Est. Tbl. 4

MSFC

CIF Rm. 307

Lief Console

MSFC HOSC

Lief

1. CLASSIFICATION IF ANY		2. DATE September 22, 1967		4. PAGE NO. 2058.1	
3. REVISION NO. 0		5. REPLACES PAGE(S)		6. DATE	
7. NO. 40002		8. DATE		9. DATE	

6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST					
9. ITEM NO.	10. TEST CODE	11. SD RD ITEM NO.	12. SD RD PAGE NO.	DISCUSSION	DATE
11	501 & Up				
12 QJ	8 KG	RD 2050.2		LC 39A, ML 300' TD 9060 LC 39A, ML 300' TD 9060	MSOB Rm 3436, Unit 245 MSOB Rm 3436, Unit 245
13 QJ	9 KG	RD 2050.7		MSOB Rm 3436, Unit 245	LC 39 FR. Unit 17 UDL
14 QJ	10 KG	RD 2050.7		MSOB Rm 3412	LC 39 MSS (TD 9707) UHF Command UDL
15 QJ	16 PG	RD 2050.12		(reference Item 4 QJ, SD page 127)	

USE

TO

FROM

CIRCUIT NO.

TITLE SPECIFICATIONS				2. DATE	4. PAGE NO.
				September 22, 1967	2060
				3. REVISION NO.	5. REPLACES PAGE S.
				0	
6. TITLE				7. NO.	DATED:
APOLLO/SATURN V SD - FLIGHT READINESS TEST				40002	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME	
1 QJ	501 & Up	1 KG	RD 2060	MSOB Rm 2456 Rack 12(reference Item	
2 QJ		2 KG	RD 2060.1	MSOB Rm 3416 Rack F	
3 QJ		3 KG	RD 2060.3	MSOB Rm 3436 Rack 250A1	
4 QJ		14 PG	RE 2060.9	FMC Van at IC 39, Pad A (reference Item 21 QJ, SD page 127.2) (reference Item 5 QJ, SD page 126)	
5 QJ		2 JG	RD 2060.10	IC-39 PTCR Room 210 Rack 33	
6 QJ		3 JG	RE 2060.11	IC-39 ML #1 Room 15B Rack 5	
7 QJ		4 JG	RD 2060.11	IC-39 VAB Room 3E17 Rack 7217A1A3	
8 QJ		5 JG	RE 2060.12	IC-39 FR #1 Rack 5979A2	
9 QJ		6 JG	RE 2060.12	IC-39 VAB, Room 27E15, Rack 7211A1A3	
10 QJ		7 JG	RE 2060.13	IC-39 VAB Room 15E21 Rack 7215A1A3	
				STATION OR LOCATION	A C
				IRIG-B	Mod 3V P-P
				IRIG-B	0 to +6V
				IRIG-C	Relay closure
				AMR-B1	Relay closure
				AMR-D1	0 to -6V
				AMR-D5	3V P-P
				1000CPS	0 to +12V
				IRIG-D	0 to +12V
				IRIG-A	0 to +16V
				IRIG-D	0 to +6V
				IRIG-C	0 to +6V
				IRIG-B	Mod 2.8V P-P
				IRIG-E	0 to 6V
				IRIG-A	0 to +6V
				IRIG-B	Mod 5V P-P
				IRIG-B	Mod 6V P-P
				100 PPS	0 to -8V
				2KPPS	0 to -8V
				AMR-B1	0 to -8V
				IRIG-A	0 to -8V
				IRIG-B	Mod 4V P-P
				IRIG-C	0 to -8V
				IRIG-D	Relay closure
				IRIG-B	0 to 1.5V
				IRIG-C	0 to 1.5V
				AMR-B1	0 to 1.5V
				AMR-D5	1.5V I-I
				IRIG-B	4.5V I-I
				AMR-B1	0 to -7V
				IRIG-B	MOD 1.5VPP
				AMR-B1	Mod 1.5VPP

2. DATE
September 22, 1967

4. PAGE NO. 2060.2

5. REPLACES PAGE (S)

3. REVISION NO. 0

TIMING SPECIFICATIONS

6. TITLE
APOLLO/SATURN V SD-FLIGHT READINESS TEST

7. NO. 40002

DATED:

9. TEST CODE
10. SD/RD ITEM NO.
11. SD/RD PAGE NO.

NET NUMBER
AND
FUNCTION OR NAME

STATION OR LOCATION

A C

1 QJ

PG

CIF Room 291 Rack C-7
Rack C-8

2 QJ

PG

CIF Room 173

3 QJ

PG

CIF Room 173

IRIG-D Deleted by requester.

4 QJ

PG

ICC-39 Room 2P20 Rack 22

5 QJ

PG

M#1 Room 10B Rack 27
M#1 Room 10B Rack 16

6 QJ

PG

CIF Antenna Site Rack B-2
(reference item , SD page 127)

7 QJ

PG

CIF Room 307 Rack A-5

8 QJ

PG

ICC-39 Room 4F11 Rack 3

IRIG-B Mod 6V P-P
IRIG-C 0 to +6V
IRIG-B 6V P-P
AMR-D5 0 to +6V
AMR-B1 0 to +6V
AMR-B1 28V
100KHZ 4V P-P
IRIG-D 0 to +6V
IRIG-C Dry closure
IRIG-D Dry closure
IRIG-B 0 to -6V
IRIG-C Mod 6V P-P
IRIG-B +28V
IRIG-B1 Dry closure
AMR-B1 Dry closure

2. DATE

September 22, 1967

4. PAGE NO.

2000.3

TIMING SPECIFICATIONS

3. REVISION NO.

5. REPLACES PAGE (S)

7. NO.

40002

6. TITLE
APOLLO/SATURN V SD-FLIGHT READINESS TEST

DATED:

9. ITEM NO.	10. TEST CODE	11. SD/RD PAGE NO.
-------------	---------------	--------------------

NET NUMBER
AND
FUNCTION OR NAME

STATION OR LOCATION

A C

9 QJ	50L & Up	PG	CIF Room 327 Rack 37	IRIG-B 0 to -6V	AMR-B1 0 to -6V	IRIG-D 0 to +6V	IRIG-B Mod 6V P-P	IRIG-B 0 to +6V	IRIG-C 0 to +6V	IRIG-D 0 to +12V	1KPPS 0 to +12V	AMR B-1 -6V B/P	AMR D-5 6V P/P	1st Motion 28V DC	IRIG-B -6V B/P	IRIG B Mod 1 KHz 6V P-P	IRIG-C -12V B/P
10 QJ		PG	ML#1 Room 10B Rack 16				X										
11 QJ		PG	PTCR Room 208 Rack E-5				X	X		X							
12 QJ		PG	PTCR Room 210 Rack 33								X	X					
13 QJ		PG	CIF Antenna Site, Rack B2										X	X	X	X	X

VISUAL COUNTDOWN AND STATUS INDICATORS

2. DATE September 22, 1967				4. PAGE NO.	
3. REVISION NO. 0				5. REPLACES PAGE 5	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002	
8. ITEM NO.		9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12. NET NUMBER AND FUNCTION OR NAME
1 QJ	501	1 KG	2 KG	RD 2080	Operational C/D Displays
2 QJ	& Up	3 KG	3 KG	RD 2080	
3 QJ		4 KG -10 KG		RD 2080	
4 QJ			11 PG		MSOB Rooms 2456, 3430, 3436, 4432, 4452, 3412 and 3416 (reference Item 35 QJ, SD page 127.2)
5 QJ			12 PG		
6 QJ			1 JG	RD 2080.5	
7 QJ			2 JG	RD 2080.5	LC 39 VAB Room 3E17
8 QJ			3 JG	RD 2080.5	
9 QJ			4 JG	RD 2080.5	
10 QJ				RD 2080.5	LC 39 VAB Room 27E15 (Visible from Rack 3)
					LC 39 Room 22104 (reference Item 2, QJ, SD page 127.2)

VISUAL COUNTDOWN AND STATUS INDICATORS				2 DATE September 22, 1967	4 PAGE NO. 2080.1
				3 REVISION NO. 0	5 REPLACES PAGE IS
6 TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7 NO. 40002	DATED:
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	NET NUMBER AND FUNCTION OR NAME	
11 QJ	501 & Up	8 JG	RD 2080.5	C/D display visible from Area B Console C11	
12 QJ		9 JG	RD 2080.5	LC-39 VAB Room 26E7	
13 QJ		10 JG	RD 2080.5	LC-39 VAB Room 15E21	
14 QJ		11 JG	RD 2080.5	LC-39 Room's 3PL5 and 3PL7	
		12 JG	RD 2080.6	4-241 displays	
15 QJ		13 JG	RD 2080.6	LC-39 ML #1 Room 15A	
		14 JG		2-241 displays	
16 QJ		15 JG	RD 2080.6	Reference Item 25 of page 127.2	
				Operational C/D Displays	

VISUAL COUNTDOWN AND STATUS INDICATORS			2. DATE September 22, 1967		4. PAGE NO. 2080.2
			3. REVISION NO. 0		5. REPLACES PAGE (S)
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST			7. NO. 40002		
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	DATED:	

NET NUMBER AND FUNCTION OR NAME				STATION OR LOCATION		A C		Operational C/D displays	2 - BCD Decoders	Count Hold Signal										
1 QJ	501 & Up	PG		SC and LV Countdown on 8-5kt C/D displays				X												
2 QJ		PG		LV Countdown in CIF 327				X												
3 QJ		PG		CIF Room 205 GMT and LV Countdown on 4-1kt and 2-2kt C/D displays (reference Item 30 QJ, SD page 127.2)				X												
4 QJ		PG		CIF Room 307 SC and LV Countdown, est. time to launch and GMT.				X												
5 QJ		PG		CIF Room 173 SC and LV Countdown (reference Item 26 QJ, SD page 127.2).				X												
6 QJ		PG		CIF Room 177, Input to two redundant countdown decoders for transmission to MCC-H via CASTS. Visual display of LV countdown				X												
7 QJ		PG		LCC-39 Rooms 4P11 and 4R10 Note: SV and LV are same thing.				X												
8 QJ		PG		LCC-39 Room 4P11 (reference Item 3 QJ, SD page 126).						X										

DATA DISPLAY AND CONSOLES				2. DATE September 22, 1967		4. PAGE NO. 2210	
				3. REVISION NO. 0		5. REPLACES PAGE S	
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST				7. NO. 40002		DATED	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	DISCUSSION		
1 PG	501 & Up	1 JG	RD 2210	A. <u>Flight Controller</u>	1. a. 16 telemetry parameters per page will be provided. b. Multiple parameter plots will not be provided. Capability does not exist at this time. c. Capability of plotting minimum and maximum limits will not be provided. Provided in a. above. 2. a. Capability of going back in time does not exist at this time. b. Ability to make hard copy of video display does not exist. c. Slide selection capability will be provided. d. Keyboard type arrangement will be provided. 3. a. Guidance and control list will be provided as specified in RD 40000A. b. IVDC telemetry data of channel H60-603 computer program is not complete and cannot be provided at this time.		

FLIGHT EVALUATION DATA PROCESSING COMPUTER SUPPORT - GENERAL				2. DATE September 22, 1967		4. PAGE NO 2500	
				3. REVISION NO C		5. REPLACES PAGE	
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST		7. NO. 40002		DATED:			
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	DISCUSSION		
1 PG	501 & Up	1 KG	RD 2500		For information only (ACE FR 1400 and/or CDC 606 Computer Room Data Tape, Post-Test Data Processing and Data Setup Sheets).		
2 PG		2 KG	RD 2500 RD 2500.1		For information only (Post Test Data Requirements and Format for Computer Processing.).		
3 PG		3 KG	RD 2500.2		For information only-(Scheduled Data Processing Requirements).		
4 PG		4 KG	RD 2500.2		For information only (Unscheduled Data Processing Requirements).		
5 PG		7 KG	RD 2500.2		G & N Data Processing		
6 PG		8 KG	RD 2500.3		1. CMCD Block I Spacecraft will be provided.		
7 PG		9 KG	RD 2500.3		2. GNDE Block II Spacecraft will be provided.		
8 PG		10 KG	RD 2500.3		PPDP program will be provided.		
9 PG		11 KG	RD 2500.4		PSRD program will be provided.		
10 PG		12 KG	RD 2500.4		GNDE program Block II will be provided.		
11 PG		13 KG	RD 2500.4		CBLV program will be provided.		
					ENGU program will be provided.		
					DSEC program will be provided.		

1. CLASSIFICATION (IF ANY)		2. DATE September 22, 1967		4. PAGE NO. 2500.1	
		3. REVISION NO. 0		5. REPLACES PAGE'S	
				DATED:	

FLIGHT EVALUATION DATA PROCESSING COMPUTER SUPPORT - GENERAL

7. NO. 40002		DISCUSSION	
<p>ABRP program will not be provided (reference Item 36 QJ, SD page 127.3).</p> <p>UPLK program will not be provided (reference Item 37 QJ, SD page 127.3).</p>			

FLIGHT EVALUATION DATA PROCESSING COMPUTER SUPPORT - GENERAL

6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST			
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.
12 PG	501 & Up	14 KG	RD 2500.5
13 PG		15 KG	RD 2500.5

FLIGHT EVALUATION DATA PROCESSING COMPUTER SUPPORT - MISCELLANEOUS				2. DATE September 22, 1967	4. PAGE NO. 2550
				3. REVISION NO. 0	5. REPLACES PAGES
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST		7. NO. 40002	DATED:		

8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12. DISCUSSION
1 PG	501 & Up	1 KG	RD 2550	Low IES Abort System A - Events will be provided from T minus 15 sec to Impact.
2 PG		2 KG	RD 2550	SPS Abort System A - Events will be provided from T minus 15 sec to CSM Separation.
3 PG		3 KG	RD 2550	UDL Test - Events will be provided from T minus 15 sec to end of test.
4 PG		4 KG	RD 2500	Normal Mission - Events will be rprovided from T minus 15 sec to Impact.
5 PG		5 KG	RD 2500	Normal Mission - Events will be provided from T minus 15 sec to T plus 3 min.
6 PG		6 KG	RD 2500	G & N AGC printout will be provided from T minus 30 sec to T plus 15 min.

FLIGHT EVALUATION DATA PROCESSING COMPUTER SUPPORT - GENERAL					2. DATE	4. PAGE NO.
					September 22, 1967	2550.1
					3. REVISION NO.	5. REPLACES PAGE(S)
					0	
6. TITLE					7. NO.	DATED
APOLLO/SATURN V SD - FLIGHT READINESS TEST					40002	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	DISCUSSION	
1 PG	501 & Up	1 JG	RD 2550.1		Computer tabulation of IU measurements in engineering units will be provided from T minus 10 sec to T plus 990 sec.	
2 PG		2 JG	RD 2550.1		Computer tabulation of IU measurements in voltage will be provided from T minus 10 sec to T plus 990 sec.	
3 PG		3 JG	RD 2550.1		Computer tabulation of IU measurements in voltage will be provided from T minus 10 sec to T plus 990 sec.	
4 PG		4 JG	RD 2550.1		Voltage printout in engineering units will be provided from T minus 10 min to T minus 9 min.	
5 PG		5 JG	RD 2550.1		Computer tabulation of CIF error message will be provided.	
6 PG		6 JG	RD 2550.1		Computer tabulation vehicle bilevel measurements will be provided from T minus 35 sec to T plus 180 sec.	
7 PG		7 JG	RD 2550.1		SC 4020 time history plots of IU measurements will be provided from T minus 10 sec to T plus 990 sec.	
8 PG		8 JG	RD 2550.1		SC 4020 35 mm microfilm will be provided from T minus 10 sec to T plus 990 sec.	
9 PG		9 JG	RD 2550.2		SC 4020 time history plots will be provided from T minus 35 sec to T plus 180 sec.	
10 PG		10 JG	RD 2550.2		LVDC-2 real time guidance will be provided from T minus 10 min to End of Test.	
11 PG		11 JG	RD 2550.2		SC 4020 plots of LVDC-2 will be provided from T minus 20 sec to TB5 plus 100 sec.	
12 PG		12 JG	RD 2550.2		Computer printout DEE6 alphanumeric tape will be provided from start of count to end of test.	
13 PG		14 JG	RD 2550.2		Computer printout sector dump of Flight Computer will be provided.	
14 PG		15 JG	RD 2550.2		Octal printout, CCS Command from MCC-H to USB will be provided.	
15 PG		16 JG	RD 2550.2		Octal printout CCS Commands from USB to IU will be provided.	
16 PG		17 JG	RD 2550.2		SC 4020 book copy IU measurements will be provided.	

PHOTOGRAPHIC ACQUISITION - DISPOSITION

DOCUMENTARY

2. DATE September 22, 1967	4. PAGE NO. 2700
3. REVISION NO. 0	5. REPLACES PAGES
7. NUMBER 40002	DATE
10. VEHICLE	9. TEST CODE FOR END OF

6. TITLE

APOLLO/SATURN V 3D-FLIGHT READINESS TEST

PROCESSING AND DISPOSITION

To be specified at time of work order request.

REMARKS:

Photographic coverage of GSE/DDT's S/CSM Test set ups and test stand configuration is required for Engineering Analysis of problem areas during GSE/Complex setups.

NOTE: See page 126

REF. ITEM	1 KG	REF. PAGE	2610.011
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To be specified at time of work order request.

REMARKS:

Photographic coverage of parts anomalies, damaged components, component failure fixes and failure analysis occurring during test for duration of test.

NOTE: See page 126

REF. ITEM	1 KG	REF. PAGE	2610.011
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REMARKS:

REF. ITEM		REF. PAGE	
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REMARKS

REF. ITEM		REF. PAGE	
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METEOROLOGICAL - FORECASTS				2. DATE September 22, 1967		4. PAGE NO. 2820	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED	
8.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.			
1 NF	501 & Up	1 JG	RD 2820	DISCUSSION General Forecast of surface winds, precipitation, and thunderstorms followed by continuous advisory service including lightning and atmospheric electrical activities will be provided.			

SERVICES - GENERAL				2. DATE September 22, 1967		4. PAGE NO. 3200	
				3. REVISION NO. 0		5. REPLACES PAGE(S)	
6. TITLE APOLLO/SATURN V SD-FLIGHT READINESS TEST				7. NO. 40002		DATED	
8.	9.	10.	11.	12.	DISCUSSION		
ITEM NO.	TEST CODE	SD RD ITEM NO.	SD RD PAGE NO.				
1 RL	501 & Up	1 PG	RD 3200		Base Utilities (TWA-271) will check out the permanently installed generators at the CIF Antenna Site three days prior to start of test and provide on site switching personnel from one hour prior to start of test until test termination. The generator will be running during the test.		
2 PL		2 PG	RD 3200		Base Utilities (TWA-271) will provide a 115KW, 3P4W, 120/208 generator to backup power to rooms 177, 291 and 297 in the CIF and have it in place and checkout out by 3 days prior to start of test. Switching personnel will be on site from one hour prior to start of test until test termination. The generator will be running during the test.		
3 RL		1 PB	RD 3200.2		Mail and Postal (TWA-203) will provide qualified couriers to PB-1 in rooms 234/236 of CIF as follows: from T-0 to T+8 hrs., T+8 hrs to T+24 hrs., and T+1 day to T+2 days, 0730-1600.		
4 RL		3 PG	RD 3200.3		Base Utilities (TWA-271) will provide a 15 KW, 120/208, 3-phase generator with Russel Stowe 3134 W receptacle to provide power to EMC van (HE 703002) located at Pad A. Generators will be on site and checked out by three days prior to test.		
5 RL		1 JG	RD 3200.4		Fire Protection (TWC-520) will provide fire truck and personnel on standby at the pad for duration of test.		
6 RL		9 JG	RD 3200.4		Medical (TWA-710) will provide standby emergency support at LCMF with backup at the OHF for duration of test.		
7 RL		2 JG	RD 3200.4		Mobile Food Service will be provided to serve the Pad area and ML during the test, as required.		
8 RL		1 KG	RD 3200.1		KSC Security will arrange for guards to clear and control limited areas for duration of test.		
9 RL		5 JG	RD 3200.4		Base Utilities (TWA-271) will verify the operation of the Temperature and Humidity Monitor/Alarm System at LCC Rooms 3F15/3F17 prior to and during the test.		
10 RL		8 JG	RD 3200.4		Fire Protection (TWC-520) will provide a fire truck and personnel on standby at the LC-39 fire station.		
10 RL		8 JG	RD 3200.4		Bendix PSCL will provide Mass Spectrometer leak detection support as requested in RD. Verbal results on site (reference Item 9 QL, SD page 126).		
11 QL		2 KG	RD 3200.1		Bendix C-39 Department will provide potable water as needed at the Pad ECS Cooling Towers.		
12 QL		3 JG	RD 3200.4				
13 RL		3 JG	RD 3200.4		Base Utilities (TWA-271) will provide Potable water to the shut off valve at the pad ECS Cooling Towers without interruption for duration of test.		

SERVICES - GENERAL				2. DATE	4. PAGE NO.
				September 22, 1967	3200.1
				3. REVISION NO.	5. REPLACES PAGE(S)
				0	
				7. NO.	DATED:
				40002	
5. TITLE	8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12. DISCUSSION
APOLLO/SATURN V SD-FLIGHT READINESS TEST					
14 QZ	501 & Up	5 JG	RD 3200.4		C-39 Department personnel will provide air conditioning to the ground computer system room, 15A, on the 1L.
15 QK		7 JG	RD 3200.4		C-39 personnel will position MSS platform #2 to the IU level before T-7 hours and operate and maintain this platform through the post test removal of the couplers.
16 RL		3 KG	RD 3200.1		Mail and Courier (TWA-203) will provide a qualified courier to pick up data from the SCTC in the active ACE Control Room in the MSOB as follows: (depending when the test is scheduled), 0800 and 1500, Monday thru Friday, 0830 and 1100 on Saturday, with on-call pickups available between times specified.
17 RL		1 JG	RD 3200.4		System Safety Department will provide safety supervisors to monitor and implement the ground safety rules in accordance with KSC Ground Safety Plan K-V053.
18 RL		6 JG	RD 3200.4		Base Utilities (TWA-271) will verify the operation of the Temperature and Humidity Monitor/Alarm System at LCC Room 3Pl5/3Pl7 prior to and during test.

PROPELLANTS, GASES, AND CHEMICALS					2. DATE September 22, 1967	4. PAGE NO. 3230
TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST					3. REVISION NO. 0	5. REPLACES PAGE S
					7. NO. 40002	
8. ITEM NO.	9. TEST CODE	10. SD RD ITEM NO.	11. SD RD PAGE NO.	12.	DISCUSSION	
1 QL	501 & Up	1 JG	RD 3230		Bendix HPG Department will provide Gaseous Nitrogen, MSFC-234, from the Pad High Pressure Storage Battery to the GN ₂ High Pressure Distribution System on the ML.	
2 QL		2 JG	RD 3230		Bendix HPG Department will provide Gaseous Nitrogen, MSFC-234, from the Pad High Pressure Storage Battery to the ECS Room at the PTCR.	
3 QL		3 JG	RD 3230		Bendix HPG Department will provide Gaseous Nitrogen, MSFC-234, from the Converter Compressor Facility to the ECS Room at the PTCR.	
4 QL		4 JG	RD 3230		Bendix HPG Department will provide Gaseous Helium, MSFC-364A, from the Pad High Pressure Storage Battery to the GNe High Pressure Distribution System on the ML.	

CHEMICAL AND PHYSICAL ANALYSIS				2. DATE September 22, 1967	4. PAGE NO. 3240
				3. REVISION NO. 0	5. REPLACES PAGE(S)
6. TITLE APOLLO/SATURN V SD - FLIGHT READINESS TEST		7. NO. 40002		DATED:	
8. ITEM NO.	9. TEST CODE	10. SD/RD ITEM NO.	11. SD/RD PAGE NO.	12. DISCUSSION	
1 QL		1 KG	PD 3240	Bendix PSCL has capability of analyzing Ethylene Glycol/Water Solution--Inhibited Type II. However, current revision of NAA MBOLIO-006 specification calls for Phosphate as Phosphoric Acid-0.2 to 0.5 instead of Triethanzlmine Phosphate (reference Item 8 QL, SD page 12, and Item 31 QL, SD page 127.2).	
2 QL		2 KG	RD 3240	Bendix PSCL will sample Gaseous Helium on request and analyze for conformance to Spec. MIL-P-27407 as indicated in RD. Results in 4 hours by telephone (reference Item 8 QL, SD page 126).	
3 QL		3 KG	RD 3240.1	Bendix PSCL will sample Oxygen, Types I and II and analyze for conformance to spec. MIL-O-27210B as indicated in RD. Results in 4 hours by telephone (reference Item 8 QL, SD page 126).	
4 QL		4 KG	RD 3240.1 RD 3240.2	Bendix PSCL will sample Nitrogen, Types I and II and analyze for conformance to spec. MIL-P-27401. Results in 4 hours by telephone (reference Item 8 QL, SD page 126).	
NOTE: Sampling equipment will be cleaned to a level commensurate with contamination limit specifications.					